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Bulletin

San Diego State Teachers College

AND

Announcement of Courses

1935-1936



June, 1935

CALIFORNIA STATE PRINTING OFFICE
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State Teachers College of San Diego

Volume Twenty-three JUNE, 1935

No. 2

STATE TEACHERS COLLEGE OF SAN DIEGO

Administered Through

STATE DIRECTOR OF EDUCATION

VIERLING KERSEY-----Superintendent of Public Instruction
ex officio Director of Education
SAM H. COHN-----Deputy Director of Education
J. A. BURKMAN-----Teachers College Adviser

STATE BOARD OF EDUCATION

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OFFICERS

EDWARD L. HARDY-----President (until August 31, 1935.)
WALTER RAY HEPNER-----President (beginning September 1, 1935.)
IRVING E. OUTCALT-----Vice President
JESSE W. AULT-----Dean of Education
ARTHUR G. PETERSON-----Dean of Liberal Arts
CHARLES E. PETERSON-----Dean of Men
MRS. MARY IRWIN McMULLEN-----
-----Dean of Women and Placement Secretary
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F. W. VAN HORNE-----Financial Secretary
GEORGIA C. AMSDEN-----Faculty Secretary

Published Quarterly by the State Teachers College of San Diego.
SAN DIEGO, CALIFORNIA

CALENDAR 1935-1936

SUMMER SESSIONS, 1935.

Term I, six weeks, June 24-August. 2.

Term II, three weeks, August 5-August 24.

FALL SEMESTER, 1935-1936.

September 9, Admission Day Holiday.

September 10 to September 17. Freshman Orientation Week
(Attendance Required).

September 10, 8.30 a.m., Examination in Subject A (English
Composition).

1.30 p.m., Fundamentals Test.

September 11, 8.30 a.m., College Aptitude Test.

2.00-4.00 p.m., Entrance Examination in Music (by
appointment).*

September 12, 8.30-10 a.m. Entrance Examination in Music (by
appointment).*

9.00-12.00 a.m., Payment of Fees by Students Who
Preregistered.

September 13, 8.30-12.00 a.m., and 1.00-2.00 p.m., Registration of
Entering Freshmen Students.

9.00-12.00 a.m., Payment of Fees by Students who
Preregistered.

September 16, 8.30-12.00 a.m., and 1.00-2.00 p.m., Registration of
Old Students with Initials A-K, New Students
with Advanced Standing, and Returning Students.

September 17, 8.30-12.00 a.m., and 1.00-2.00 p.m., Registration of
Old Students with Initials L-Z, New Students
with Advanced Standing, and Returning Students.

September 18, Class work begins.

November 11, Armistice Day Holiday.

November 27-December 1, Thanksgiving Recess.

December 21, Christmas Recess Begins.

January 6, Class Work Resumes.

January 22-29 Mid-Year Examinations.

* See page 42.

SPRING SEMESTER, 1936.

February 1, 10.00 a.m., College Aptitude Test.

February 3 to February 5, Freshman Orientation Week (Attendance Required).

February 3, 8.30 a.m., Examination in Subject A (English Composition).

9.00-12.00, Payment of Fees by Students who Preregistered.

1.30 p.m., Fundamentals Test.

February 4, 8.30-12.00 a.m., and 1.00-2.00 p.m., Registration of Entering Freshmen and Students Entering with Advanced Standing.

9.00-12.00 a.m., Payment of Fees by Students who Preregistered.

2.30-3.30 p.m., Entrance Examination in Music (by appointment).*

February 5, 8.30-12.00 a.m., and 1.00-2.00 p.m., Registration of Old Students and Returning Students.

February 6, Class Work Begins.

April 4-12, Easter Recess.

May 1, Dedication Day.

June 4-11, Final Examinations.

June 12, Annual Commencement Exercises.

SUMMER SESSIONS, 1936.

Term I, six weeks, June 22-July 31.

Term II, three weeks, August 3-August 21.

* See page 42.

FACULTY

For the Year 1934-1935

EDWARD L. HARDY, LL.D. PRESIDENT (until August 31, 1935)
B.L., University of Wisconsin; M. A., University of Chicago; LL.D.,
La Verne College.
Study of European secondary schools.
Principal of San Diego High School. (Appointed September, 1910.)

WALTER RAY HEPNER, A.M. PRESIDENT (beginning September 1, 1935)
A.B., A.M., University of Southern California.
Graduate student, University of Chicago and University of California.
High school teacher; Chicago, Illinois; Long Beach and Oxnard, California. Principal, Fresno High School; Superintendent of Schools, Fresno and San Diego. Summer Session and extension instruction: State Teachers Colleges of Fresno, San Jose, and San Diego; Claremont Colleges; Stanford University; University of California at Los Angeles. Chief, Division of Secondary Education, California State Department of Education. (Appointed September, 1935.)

IRVING E. OUTCALT, M.A. VICE PRESIDENT AND PROFESSOR OF ENGLISH
A.B., M.A., Stanford University.
Student, University of Illinois; graduate study and research work, Stanford University. Travel in Europe.
Head of Department of English, San Diego High School.
(Appointed September, 1912.)

J. W. AULT, M.A. DEAN AND PROFESSOR OF EDUCATION
B.S., Valparaiso University; M.A., University of South Dakota.
Student Miami University; graduate student, University of Iowa and University of Southern California.
Superintendent of city schools; conductor and instructor in teachers institutes; Professor of Education at Southern State Teachers College, Springfield, South Dakota. (Appointed September, 1925.)

ARTHUR G. PETERSON, M.A. DEAN OF LIBERAL ARTS, EX OFFICIO IN
GENERAL CHARGE OF LOWER DIVISION
STUDIES, AND PROFESSOR OF ECO-
NOMICS
A.B., College of Pacific; M.A., Stanford University.
Graduate student, University of Southern California.
Vice Principal of San Diego High School and Director of Junior College. (Appointed September, 1921.)

CHARLES E. PETERSON, A.B. DEAN OF MEN AND ASSOCIATE PROFES-
SOR OF PHYSICAL EDUCATION AND
DIRECTOR OF PHYSICAL EDUCATION
FOR MEN
A.B., State Teachers College of San Diego.
Student, Oregon Agricultural College and University of California.
Graduate student, Claremont Colleges.
Director of Playgrounds, Portland, Oregon; Director of Physical Education, Y. M. C. A.; Physical Education and Recreation work in the United States Army Camp; Director of Physical Education in Junior High School, Berkeley, California. (Appointed July, 1921.)

MARY IRWIN McMULLEN, A.B. DEAN OF WOMEN AND PLACEMENT
SECRETARY AND ASSISTANT PRO-
FESSOR OF EDUCATION
A.B., State Teachers College of San Diego.
Graduate student, University of Chicago, and Stanford University.

Public school teacher, Oakland, California.
(Appointed Secretary to the President July, 1926; Director of Placement July, 1930; Dean of Women January, 1934.)

JOHN R. ADAMS, M.A. ASSOCIATE PROFESSOR OF ENGLISH

A.B., M.A., University of Michigan.
Graduate student, University of Southern California.
Instructor in Rhetoric, University of Michigan; Associate in English, University of Washington (Appointed September, 1928.)

GEORGIA C. AMSDEN ASSOCIATE PROFESSOR OF COMMERCE

Gregg School, Chicago; special secretarial training in various institutions; University of California summer session and extension division work.

Teacher in University of California summer school; Traveling Representative and Secretary for the Federal Board for Vocational Education, France, World War; in charge of Stenographic Division, Department of Personnel, American Red Cross Headquarters, Paris, World War; Secretary, Standard Life and Accident Insurance Company, Detroit, Michigan; Assistant Editor and Reporter, Daily Press, Ypsilanti, Michigan; Instructor, San Diego High School.

(Appointed September, 1925.)

GUINIVERE KOTTER BACON, M.A. TRAINING SUPERVISOR AND ASSOCIATE PROFESSOR OF EDUCATION

B.S., Utah Agricultural College; M.A., Stanford University.
Graduate student, Stanford University; University of California; Teachers College, Columbia University.
Teacher in Public Schools; Primary Supervisor.

(Appointed July, 1928.)

O. W. BAIRD, M.A. PROFESSOR OF PHYSICS

A.B., University of Wisconsin; M.A., University of California.
Graduate student, University of Minnesota.
Head of Science Department, University of Wisconsin High School and Stadium High school, Tacoma, Washington; Assistant in Physics Department, University of Washington, Seattle.

(Appointed September, 1921.)

FRED BEIDLEMAN, B.Mus. ASSOCIATE PROFESSOR OF MUSIC

B.S., B.Mus., Columbia University.
Teacher of Music, Boys High School, Brooklyn, N. Y.; Instructor, Columbia University; Head of Violin Department, University of Illinois; Assistant Professor of Music, University of North Dakota; Professor of Music and Director of the Conservatory College of Puget Sound; National Music Camp, Interlochen, Michigan, 1933.

(Appointed September, 1927.)

GERTRUDE SUMPTION BELL, M.A. PROFESSOR OF PSYCHOLOGY

A.B., Indiana University; M.A., Stanford University.
Graduate, Indiana State Normal School; Research Work, Clark University. Travel in Europe.
Assistant in Education and Director of Practice Teaching, University of Colorado; State Institute Lecturer, Montana; Instructor, School of Education, Indiana University. (Appointed August, 1916.)

MARJORIE KELLY BORSUM, M.A. INSTRUCTOR IN ART

B.F., University of California at Los Angeles; M.A., University of Southern California.
Pupil in Paris of Andre Lhote, Painter, and of Mme. Alexandra Exter, Russian Stage Designer.

Instructor in Fine Art, Pasadena Junior High School.

(Appointed September, 1927.)

BAYLOR BROOKS, B.A. INSTRUCTOR IN GEOLOGY

B.A., Stanford University.
Graduate student, University of Arizona; Harvard University; Oxford University; Stanford University. Travel in Europe.
Member of staff, Yosemite Field School of Natural History; Summer Lecturer, National Park Service, Yellowstone and Yosemite.

(Appointed September, 1931.)

- M. EUSTACE BROOM, PH.D. ASSOCIATE PROFESSOR OF EDUCATION
A.B., M.A., University of Illinois; Ph.D., University of Southern California.
Student, University of Chicago.
Assistant in Psychology, University of Illinois; Teacher, High School, Elizabeth, Illinois; Superintendent of Schools, Scales Mound, Illinois, and Bramwell, West Virginia; Instructor in Education, Extension Division, Concord State Normal School, West Virginia; Teacher, Francis W. Parker School of San Diego; Lecturer and Visiting Assistant Professor of Education, University of Southern California; Visiting Assistant Professor of Education (summer session), the George Washington University; Associate Editor, The High School Teacher; Contributing Editor, The Journal of Applied Psychology.
(Appointed February, 1928.)
- LESLIE P. BROWN, PH.D. ASSOCIATE PROFESSOR OF SPANISH
A.B., Yale University; M.A., Harvard University; Ph.D., University of Southern California.
Instructor in French and Spanish, Northwestern University; Harvard University; University of North Carolina; University of Chicago.
(Appointed July, 1922.)
- ROY E. CAMERON, PH.D. ASSOCIATE PROFESSOR OF ECONOMICS
A.B., Ph.D., University of California.
Student, Creighton University.
Professor of Economics, University of Omaha; Teaching Fellow in Economics, University of California. (Appointed September, 1929.)
- VINNIE B. CLARK, A.B. ASSOCIATE PROFESSOR OF GEOGRAPHY
A.B., University of Wisconsin.
Graduate student, University of Chicago; University of Mexico.
Travel in Mexico and Europe.
Assistant in Geography, University of Wisconsin; Teacher, Oak Park High School, Illinois; Instructor in summer session, University of California at Los Angeles.
(Appointed September, 1914.)
- KATHERINE E. CORBETT, A.M. TRAINING SUPERVISOR AND ASSOCIATE PROFESSOR OF EDUCATION
B.Ed., Michigan State College; B.S., A.M., Teachers College, Columbia University.
Graduate, Public School Music Course, Ypsilanti Conservatory of Music.
Teacher in Public Schools, Ypsilanti, Michigan; Training Supervisor, Kent State Normal College, Ohio; Evening High School, San Diego.
(Appointed July, 1921.)
- JAMES ENSIGN CROUCH, M.S. INSTRUCTOR IN BIOLOGY
B.S., M.S., Cornell University.
Assistant in Ornithology, Cornell University.
(Appointed September, 1932.)
- ERBY CHESTER DEPUTY, PH.D. ASSOCIATE PROFESSOR OF EDUCATION
A.B., University of Denver; A.M., Ph.D., Columbia University.
Graduate student, University of Southern California.
Teacher in rural schools and principal of high schools, Indiana.
Assistant Professor, University of Arkansas and Kansas State Teachers College.
(Appointed September, 1931.)
- FLORENCE L. SMITH DICKHAUT, M.A. ASSOCIATE PROFESSOR OF ENGLISH
A.B., Northwestern University; M.A., University of Chicago.
Graduate student, Medill School of Journalism, Chicago.
Instructor, State Normal School, Oshkosh, Wisconsin.
(Appointed July, 1917.)
- JOHN MORTIMER GLEASON, M.A. ASSISTANT PROFESSOR OF MATHEMATICS
A.B., M.A., University of California.
Student, Hope College, University of Michigan, and University of Southern California.
Teaching Fellow in Mathematics, University of California.
(Appointed September, 1930.)

MORRIS HUBBARD GROSS, A.B. DIRECTOR OF ATHLETICS AND ASSISTANT
PROFESSOR OF PHYSICAL EDUCATION

A.B., State Teachers College of San Diego.
Graduate student, University of Southern California.
Teacher, Chula Vista Grammar School; Basket Ball Coach, U. S.
Marines and U. S. Naval Hospital. (Appointed September, 1929.)

ILSE HAMANN, B.A. INSTRUCTOR IN ART

B.A., University of California at Los Angeles.
Student, Rudolph Schaeffer School; pupil of Douglas Donaldson.
Teacher, San Bernardino City Schools; Instructor, Northwestern
University, Evanston, Illinois; Instructor, Santa Ana Junior College.
(Appointed February, 1934.)

EDITH C. HAMMACK, B.A. TRAINING SUPERVISOR AND ASSOCIATE
PROFESSOR OF EDUCATION

B.A., State Teachers College of San Jose.
Graduate, State Normal School of San Diego; graduate student,
University of California.
Public school teacher. (Appointment February, 1911.)

DOROTHY R. HARVEY, M.A. ASSISTANT PROFESSOR OF BOTANY

A.B., State Teachers College of San Diego; M.A., University of
Southern California.
Graduate student, Scripps Institute for Biological Research, La
Jolla; University of California; University of Chicago.
Public school teacher (Appointed September, 1924.)

ROBERT D. HARWOOD, Ph.D. ASSOCIATE PROFESSOR OF ZOOLOGY

B.A. Pomona College; Ph.D., Cornell University.
Assistant in Biology, Cornell University; Field Entomologist,
Natural Survey of Illinois; Teacher, Kern County Union High School
and Junior College, Bakersfield; Assistant in Entomology, Cornell
University; Stream Survey, Conservation Department, New York.
(Appointed September, 1928.)

WALTER B. HERREID, M.S. ASSISTANT PROFESSOR OF PHYSICAL
EDUCATION

A.B., Washington State College; M.S., University of Southern Cali-
fornia.
Graduate student, University of California.
Freshman Football Coach, Washington State College; Director of
Physical Education, Aberdeen High School, Aberdeen, Washington;
Director of Physical Education, Santa Maria Union High School;
Coach, Huntington Park Union High School.
(Appointed September, 1930.)

EVERETT GEE JACKSON, A.B. ASSISTANT PROFESSOR OF ART

A.B., State Teachers College of San Diego.
Student, Agricultural and Mechanical College of Texas; Art Insti-
tute of Chicago.
Associate Professor, Sul Ross Teachers College, Alpine, Texas;
three years of travel and art study in Mexico; painter.
(Appointed November, 1930.)

MARGUERITE VEASEY JOHNSON, A.M. REGISTRAR AND ASSOCIATE
PROFESSOR OF LATIN

A.B., Radcliffe College; A.M., Columbia University.
Teacher of Latin, History and French; Assistant in the Registrar's
Office, Teachers College, Columbia University. (Appointed July, 1927.)

MYRTLE ELIZABETH JOHNSON, Ph.D. PROFESSOR OF BIOLOGY

B.S., M.S., Ph.D., University of California.
Research Assistant, Scripps Institute for Biological Research, La
Jolla; Instructor, Pasadena High School. (Appointed September, 1921.)

SYBIL ELIZA JONES, M.L. ASSISTANT PROFESSOR OF ENGLISH

B.L., M.L., University of California.
Director, Junior Players of Pasadena Community Playhouse; Drama
Instructor in Chouinard Art School, Los Angeles; Organizing Secretary

and Instructor in Playwriting of Summer Art Colony at Pasadena Community Playhouse; Drama Organizer and Director of San Diego Community Service.
(Appointed September, 1925.)

JOSEPH SUMNER KEENEY, Ph.D. INSTRUCTOR IN ENGLISH
A.B., Yale University; M.A., Ph.D., University of California.
Instructor in English, Yale in China, Changsha, China; Instructor San Diego Army and Navy Academy; Instructor in English, University of California.
(Appointed February, 1933.)

GENEVIEVE KELLY, A.M. INSTRUCTOR IN SOCIOLOGY
A.B., University of California; A.M., Columbia University.
Student, Los Angeles Public Library School. Graduate student, University of Chicago. Travel in Europe.
Teacher, Corcoran Union High School. Librarian, Northern Arizona Normal School, Flagstaff; Scripps Foundation for Research in Population Problems, Oxford, Ohio.
(Appointed September, 1924.)

CHARLES B. LEONARD, Ph.D. PROFESSOR OF HISTORY
A.B., M.A., Ph.D., University of California.
Instructor in History, Lowell High School, San Francisco; Teaching Fellow in History, University of California.
(Appointed September, 1921.)

LEWIS B. LESLEY, Ph.D. ASSOCIATE PROFESSOR OF HISTORY
A.B., Stanford University; M.A., Ph.D., University of California.
Native Sons' Traveling Fellow in Europe from University of California.
Instructor, Principia School, St. Louis, Missouri; Teaching Fellow in History, University of California; Assistant Professor of American History, Pomona College; Summer session staff, Claremont Colleges. Member, University of California Lecture Bureau.
(Appointed September, 1924.)

GEORGE R. LIVINGSTON, M.A. ASSOCIATE PROFESSOR OF MATHEMATICS
B.S., M.A., University of California.
Graduate student, University of California at Berkeley and Los Angeles; University of Southern California.
Instructor, San Diego High School and Junior College; Head of Department of Mathematics, Santa Barbara High School and Junior College.
(Appointed September, 1921.)

ELMER ALLEN MESSNER, M.A. INSTRUCTOR IN CHEMISTRY
A.B., M.A., Stanford University.
Student, Marquette University, Milwaukee, Wisconsin; State Teachers College of San Diego. Registered Assistant Pharmacist, State of Wisconsin; Licentiate in Pharmacy, State of California. Graduate student, University of Breslau, Germany.
(Appointed September, 1931.)

CHESNEY RUDOLPH MOE, M. A. INSTRUCTOR IN PHYSICS
A.B., M.A., Stanford University.
Student, State Teachers College of San Diego. Graduate Student, University of Southern California.
(Appointed September, 1931.)

ABRAHAM P. NASATIR, Ph.D. ASSOCIATE PROFESSOR OF HISTORY
A.B., M.A., Ph.D., University of California.
Native Sons' Traveling Fellow in History in Europe.
Assistant Teaching Fellow in History, University of California; Instructor in History, University of Iowa. Social Science Research Council Fellow, 1930-1931.
(Appointed January, 1928.)

WILLIAM L. NIDA, M.A. PROFESSOR OF EDUCATION, SUPERVISOR OF PUBLIC SCHOOL PRACTICE TEACHING
Ph.B., Ohio State University; M.A., University of Southern California.
Graduate student, University of Chicago.
Principal of Ohio High Schools; Superintendent of Schools in Illinois; Supervisor, Junior High School, San Diego.
(Appointed July, 1921.)

- LENA PATTERSON, M.A.** ASSOCIATE PROFESSOR OF ART
A.B., B.S., Ohio University; M.A., Columbia University.
Student, Cincinnati Art Academy; Chicago Art Institute; Otis Art Institute; Rudolph Schaeffer School; International School of Art; Reimann School and Itten School, Berlin, Germany; Zweybruck School, Vienna, Austria.
Assistant, Ohio University; Professor, State Teachers College, Kirksville, Missouri; Assistant Scholar, Art Department, Columbia University; Instructor, Chouinard School of Art, Los Angeles.
(Appointed July, 1933.)
- PAUL LEWIS PFAFF, B.A.** INSTRUCTOR IN ENGLISH
B.A., Stanford University.
Student, State Teachers College of San Diego; graduate student, Claremont Colleges.
(Appointed September, 1931.)
- WALTER T. PHILLIPS, M.A.** ASSOCIATE PROFESSOR OF SPANISH AND FRENCH
A.B., University of Washington; M.A., Stanford University.
Graduate student, National University of Mexico; Institute of French Education, Pennsylvania State College.
Teaching Assistant in Spanish, Stanford University; Assistant Professor of Modern Languages, Willamette University; Instructor in Spanish, Brown University.
(Appointed September, 1927.)
- MABEL M. RICHARDS, A.M.** TRAINING SUPERVISOR AND ASSOCIATE PROFESSOR OF EDUCATION
B.S., A.M., University of Missouri.
Graduate student, University of Southern California.
Rural, City and High School Teacher; City Superintendent of Schools; Supervisor of Mathematics, Training School, State Teachers College, Warrensburg, Missouri; Director in Demonstration School, Northeast Missouri State Teachers College.
(Appointed September, 1921.)
- DUDLEY H. ROBINSON, M.S.** ASSOCIATE PROFESSOR OF CHEMISTRY
B.Sc. in Sugar Engineering, University of Louisiana; M.S., University of Iowa.
Chemist, University of Louisiana Sugar House; Raceland Sugar Factory; State Sugar House, Louisiana; Research Chemist, Thornley and Company; Chief Chemist, Pacific Marine Chemicals, Inc.
(Appointed September, 1928.)
- SPENCER L. ROGERS, A.M.** INSTRUCTOR IN ANTHROPOLOGY AND ENGLISH
A.B., State Teachers College of San Diego; A.M., Claremont Colleges.
Student in Archaeology, School of American Research, Santa Fe, New Mexico. Graduate student, University of Southern California.
Curator in Anthropology, San Diego Museum; honorary curator in prehistory, San Diego, Museum.
(Appointed September, 1930.)
- MARION LYON SCHWOB, M.S.** INSTRUCTOR IN PHYSICAL EDUCATION
B.A., University of Iowa; M.S., University of Southern California.
Student, Wellesley College and Denishawn School of Dancing.
Director of Department of Physical Education for Women, University of Iowa.
(Appointed September, 1934.)
- W. T. SKILLING, M.S.** PROFESSOR OF ASTRONOMY
B.S., M.S., University of California.
Student, State Normal School, Los Angeles; Stanford University.
Teacher, Los Angeles County and City public schools; Assistant in Physics, University of California.
(Appointed September, 1901.)
- L. DEBORAH SMITH, A.M.** ASSOCIATE PROFESSOR OF MUSIC
Mus.B., A.B., Oberlin College; A.M., Columbia University.
Graduate student, Stanford University.
Head of Department of Music, State Teachers College, Winona, Minnesota.
(Appointed September, 1922.)
- MARIAN PEEK SMOOR, A.M.** TRAINING SUPERVISOR AND ASSOCIATE PROFESSOR OF EDUCATION
A.B., A.M., Stanford University. Travel in Europe.
Teacher in Public Schools; Assistant in History, Stanford University.

sity; Dean of Women, State Normal School, Cheney, Washington;
Instructor, Francis W. Parker School, San Diego, California.
(Appointed September, 1923.)

CHRISTINE SPRINGSTON, B.M. ASSISTANT PROFESSOR OF MUSIC

B.A., B.M., University of Redlands.
Graduate student, University of Redlands, University of Southern California and University of Washington; student in piano with A. E. Guerue of St. Louis and Olga Steeb of Los Angeles. "Diploma of Execution," Conservatoire Americain, Fontainebleau, France.
Supervisor of Music, Needles, California; Assistant in Piano, Organ and Theory, University of Redlands; Instructor, San Diego High School.
(Appointed September, 1930.)

HARRY C. STEINMETZ, A.M. ASSOCIATE PROFESSOR OF PSYCHOLOGY AND PHILOSOPHY

A.B., University of California; A.M., University of Southern California.
Assistant in Journalism, University of the Philippines, Manila; Assistant in Educational Psychology, University of California; Instructor, Glendale Union High School and San Mateo Junior College.
(Appointed September, 1930.)

JOHN PAUL STONE, M.S. LIBRARIAN

B.S., Northwest Missouri State Teachers College; M.S., University of Illinois Library School.
Instructor in English and Public Speaking, Senior High School, Joplin, Missouri; Library work, University of Illinois Library; Professor of Library Science, Louisiana State Teachers College.
(Appointed September, 1930.)

ALVENA SUHL STORM, M.A. ASSOCIATE PROFESSOR OF GEOGRAPHY

A.B., M.A., University of California.
Teaching Fellow, University of California; teacher in public schools.
(Appointed September, 1926.)

JESSIE RAND TANNER, B.S. ASSOCIATE PROFESSOR OF PHYSICAL EDUCATION AND DIRECTOR OF PHYSICAL EDUCATION FOR WOMEN

B.S. and Bachelor's Teaching Diploma, Teachers College, Columbia University.
Graduate, Boston Normal School of Gymnastics; Graduate student, University of California and University of Southern California.
Tutor, Brookline, Massachusetts; Supervisor of Physical Education, San Diego County Rural Schools, 1921-1923. (Appointed July, 1904.)

FRANKLIN D. WALKER, Ph.D. ASSOCIATE PROFESSOR OF ENGLISH

B.A., (Hons. Oxon.), University of Oxford; Ph.D., University of California.
Student, University of Arizona; Holder of Arizona Rhodes Scholarship to Oxford; Graduate student, University of California.
Instructor in Dramatics, Francis W. Parker School, San Diego, California.
(Appointed September, 1926.)

HILDE MARIE KRAMER WALKER, M.A. INSTRUCTOR IN GERMAN

A.B., M.A., Northwestern University.
Graduate student, University of Chicago.
Teacher in high schools of Illinois; Assistant, Northwestern University.
(Appointed September, 1931.)

CURTIS REYNOLDS WALLING, E.E. INSTRUCTOR IN MATHEMATICS AND INDUSTRIAL ARTS

A.B., E.E., Stanford University.
Student, State Teachers College of Fresno; graduate student, Stanford University. Graduate student training course, Westinghouse Electric and Manufacturing Company, East Pittsburgh, Pennsylvania.
(Appointed September, 1931.)

W. H. WRIGHT, M.A. ASSOCIATE PROFESSOR OF COMMERCE

B.S., M.A., University of California.
Head of Department of Commerce, Visalia Union High School, Visalia, California.
(Appointed September, 1921.)

ASSOCIATE (PART-TIME) MEMBERS OF THE FACULTY

- DEAN BLAKE
Meteorologist, United States Weather Bureau, San Diego. INSTRUCTOR IN METEOROLOGY
- ELIZABETH MCPIKE BROWN, Ph.D. ASSISTANT PROFESSOR OF FRENCH
Ph.B., M.A., Ph.D., University of Chicago.
Diplôme de Phonétique, Ecole des Hautes Etudes, Paris, France;
Certificate d' Etudes Francaises, University of Paris.
Assistant in French, University of Chicago; Head of French Department, Rockford College, Rockford, Illinois; Instructor in University of California, Extension Division, San Diego, California.
- MARIAN EVANS, B.S. INSTRUCTOR IN EDUCATION
B.S., New York University.
Graduate, State Normal School, Los Angeles; Student, University of California, University of New Mexico, State Teachers College of San Diego.
Teacher, San Bernardino, Sierra Madre, San Marino; Director of Visual Education Activities, San Diego City Schools.
- REGINALD POLAND, A.M. PROFESSOR OF ART
A.B., Brown University; A.M., Princeton University; A.M., Harvard University.
Fellowship from Princeton University to American Academy at Rome.
Director of Denver Art Association; Educational Secretary, Detroit Institute of Art; Director of San Diego Fine Arts Gallery.
- VILL J. STANTON, LL.B. ASSISTANT PROFESSOR OF LAW
LL.B., University of Michigan.
Graduate student, University of Michigan.
Editor legal journal; Practicing attorney, Michigan and California.
Instructor, San Diego High School and Junior College.

ASSISTANTS

- ARTHUR JAMES O. ANDERSON, A.M. ENGLISH
AUDREY BOWEN PETERSON, A.B. TRAINING SCHOOL
FRANK R. PORATH, B.S. MATHEMATICS AND SURVEYING
DONALD JAMES ROBERTSON, A.B. COMMERCE
LOUISE MCCAIN ROSS, B.S. HEALTH COUNSELOR FOR WOMEN
FLORENCE I. SHAFER, A.B. PHYSICAL EDUCATION
CHARLES ROBERTS SMITH, A.B. PHYSICAL EDUCATION
JOHN D. WIMMER, M.A. HISTORY

SUPERVISORS IN THE EUCLID SCHOOL

- HELEN K. SYLVESTER PRINCIPAL
RUTH M. COOPER
VESTA M. PETERSEN
MARIE M. JOHNSON
MURIEL CLAYTON
RUTH M. COTTER
AGNES E. CRAFTFORD

SPECIAL LECTURERS

- GEORGE D. HUFF, M.D., F.A.C.S.
F. G. LINDEMULDER, M.D.

MEDICAL STAFF

O. S. HARBAUGH, M.D.	MEDICAL EXAMINER (MEN)
MARTHA WELPTON, M.D.	MEDICAL EXAMINER (WOMEN)
RIETA C. HOUGH, M.D.	MEDICAL EXAMINER (TRAINING SCHOOL)
MARILYNN M. FENWICK, R.N.	COLLEGE NURSE

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ELSIE ANDERSEN, A.B.	ASSISTANT LIBRARIAN: CIRCULATION
LULU GERMANN, B. S.	ASSISTANT LIBRARIAN: REFERENCE AND CIRCULATION
GENEVIEVE KELLY, A.M.	ASSISTANT LIBRARIAN: CATALOGING
GERALDINE KIRKHAM, A.B., BS.	ASSISTANT LIBRARIAN: REFERENCE, CATALOGING AND CIRCULATION
HARRIET B. STOVALL	ASSISTANT LIBRARIAN: REFERENCE AND REPAIR
CHARLOTTE G. ROBINSON	LIBRARIAN OF TRAINING SCHOOL

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MARTIN ROTH	GROUND
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THE COLLEGE

HISTORICAL SKETCH

The State Teachers College, formerly known as the State Normal School of San Diego, was established by legislative enactment March 13, 1897, and received its first class in the autumn of 1898. In April, 1921, the school, together with all of the California normal schools, received by act of the Legislature, later approved by the Governor of the State and becoming effective July 28, 1921, the designation of State Teachers College, its full legal title being, "State Teachers College of San Diego." In June 4, 1935, legislation changing the name to "San Diego State College" was approved effective September 15, 1935.

In June, 1921, under an enactment of the legislative session of the same year, known as the "Junior College Law," the San Diego Junior college was merged with the State Teachers College of San Diego. Under the arrangement thus made, collegiate courses of the lower division (freshman and sophomore years) were offered, both to students preparing for the work of the upper division (junior and senior years) of colleges and universities and to students preparing themselves for the teaching service in the new three and four-year curricula recently established by the State Board of Education. The four-year curricula leading to the A.B. degree (major in Education) were established for this institution June 30, 1923. After July 1, 1927, the courses formerly carried as "junior college" courses were offered as lower division courses of the regular four-year curricula until the current year, when junior college courses were resumed, by arrangement with the San Diego High School Board of Education, as part of the lower division offerings. On July 12, 1928, the college was authorized by the State Board of Education to offer presecondary curricula with majors in Chemistry, History, English and Romanic languages, and special secondary certification curricula with majors in Physical Education, and Art, all of them leading to the A.B. degree. On January 6, 1930, the State Board of Education authorized the following additional majors in the presecondary curricula: Art, Biological Science (Zoology now offered), and Social Sciences (Economics, Geography and History now offered); also the special secondary certification curriculum with a major in Music. On April 12, 1930, the presecondary major in Commerce was authorized by the State Board of Education, and also the special secondary certification curriculum with a major in Commerce. On June 7, 1931, and on March 18, 1932, presecondary majors in Music and Mathematics were authorized respectively in the same manner. Presecondary majors in Physics and Physical Science were authorized March 29, 1935.

For the certification of teachers, the authorized courses (elementary, junior high school and special secondary) are offered and, requiring four years of work, lead to the A.B. degree with any of the following credentials: Elementary School, Junior High School, Special Secondary in Art, Special Secondary in Commerce, Special Secondary in Music, Special Secondary in Physical Education.

ENVIRONMENT AND STANDARD

OPPORTUNITIES FOR CULTURE AND RECREATION

Environmental conditions other than physical must be taken into account by the student choosing a college. In cultural standards in art, music, literature, and science, San Diego is a favorable college city because, while it is not large, yet it has certain metropolitan advantages for the student. Many of these are to be found in the heritage resulting from the San Diego Exposition of 1915-16, including the buildings themselves, which in their consistent and effective carrying out of motifs of the best types of Spanish colonial art, make up one of the finest exhibits in architecture in America. Housed in these buildings are exhibits in anthropology and culture history which are unsurpassed in certain fields, together with natural history collections, and materials for the study of American archaeology. There is complete cooperation with the directing boards controlling the collections. The Fine Arts Gallery contains excellent exhibitions of paintings. There are plans for the development of a Public Conservatory of Music for which the great out-of-door organ furnishes a beginning. Balboa Park, in which all of these facilities are located, also contains a modern horticultural farm and a great stadium for games, community gatherings, and pageants.

At La Jolla, within the city limits, the Scripps Institution of Oceanography, operated by the University of California, gives opportunity for important cooperation in the biological field.

The courses in commerce and other branches of economics will be considerably aided by San Diego's growing importance as a commercial point particularly as the college will be able, as is planned, through its department of economics, to assist the local Chamber of Commerce in industrial and commercial surveys.

The teacher-training program profits because of the policy of cooperation generously followed by the City School Department, which has resulted in a plan for laboratory work in practice teaching in the city schools. San Diego's fine system of schools, with all of the modern divisions of kindergarten, elementary school, junior high schools, and senior high schools, furnishes unusual opportunities for observation and demonstration to students in training, and for cooperation between the specialists of the city school system and the college.

PHYSICAL CONDITIONS: CLIMATE

The physical conditions in San Diego for study are unsurpassed, since sustained intellectual effort can be maintained always with comfort in the cool, even climate of the place. Temperatures are usually shown on a globe by lines which pass through regions of the same degree of heat or cold. Red lines of 60 degrees and 70 degrees, showing the summer temperature at San Diego, enclose Alaska and Siberia. Blue lines of 59 degrees and 60 degrees, showing the winter temperature at San Diego, enclose Egypt and Arabia. Thus San Diego may be said to have Alaskan summers and Egyptian winters.

Recreational opportunities of an unusual number and variety are open to students, because of the combination of bay, sea beach, mesas, foothills, and mountains, all within compass of two hours travel by automobile. Outdoor sports of all kinds, including swimming and rowing, are possible the year round.

BUILDINGS AND EQUIPMENT

On February 1, 1931, the college was moved to the new buildings and campus, located one mile north of the city's principal east-west boulevard, El Cajon Avenue. The campus has an area of one hundred twenty-five acres. The new buildings are part of a general plan to be completed within the next few years. This plan calls for one style of architecture for the entire group of the Spanish-Moorish type, which is well suited to the landscape and climate of the region. The buildings now in use include the Academic Building, which houses lecture halls, classrooms, and administrative offices; Science Building; Library; Little Theater; Training School; Scripps Cottage (a social clubhouse for women students); the Student Building, housing the soda fountain, cafe, and bookstore; the Physical Education Building, a structure of the duplex gymnasium type, with adequate facilities for the physical education and development of both men and women. The campus also contains playing fields and courts for collegiate sports and athletics. The training school is supplied with its own, separate play spaces.

AFFILIATED PRACTICE SCHOOL

The Euclid School, a San Diego City elementary school, is affiliated with the college for practice teaching purposes. Cadets are assigned to teach in this school after having had successful initial experience in the Training School or elsewhere. The assignment is for a full half-day for the semester and carries a maximum of seven and one-half units of credit.

STANDARDS OF HEALTH, SCHOLARSHIP AND CHARACTER

All entering students are required to meet the health standards set by the department of physical education, and all lower division students, unless excused for cause, are required to take the courses in physical education, prescribed for freshmen and sophomores. Furthermore, each student is expected as a matter of efficient student and community life to keep himself in the best possible physical condition.

Standards of scholarship are based upon high entrance standards. Frequent ratings of the student are made by his instructors, so that he may at all times know how he stands; but the ability of the student to manage his own educational career and to come reasonably near to his best capabilities are factors that will count in his final ratings.

Since standards of character, as developed by and measured by honest student work, and as revealed by evidences of the possession of thorough-going self-respect and community feeling, particularly as to ideals in the important matters of citizenship and future parenthood, are more important than all else, every student will have full opportunity to show that he is worthy and that he has the capacity and the will to manifest and develop character.

ROUTINE AND PROCEDURE

Outside of the necessary routine and procedure in the conduct of registration, class attendance, conduct of examinations, and the like, college affairs are controlled by standards which are the result of experience or which reflect a very definite public opinion and college morale. There is no honor "system," but there is a standard of honor as to honesty in college work. Matters of personal conduct are not the subject of rules and regulations, but are affairs of personal and individual responsibility. Problems of conduct and control affecting the student body or student groups are dealt with as they arise (if they are not already the subject of custom, or of student body by-laws) and usually are settled by student action.

ORGANIZATION

THE CALENDAR AND REGISTRATION

The college year is divided into the fall and spring semesters of eighteen weeks each, followed by a summer session consisting of terms of six, nine and three weeks. Students may enter at the beginning of either semester and at the beginning of either the six or the three weeks' summer term.

The Summer Session meets the needs of regular students who wish to gain credits toward the A.B. degree, of teachers in service who wish further professional training and of liberal arts students who wish to secure supplemental credit or to shorten the time for completion of work in the lower division.

Registration of students will be made September 13, 16, and 17 for the fall semester, and February 4 and 5 for the spring semester. Those entering as freshmen must see that the high school principal's recommendation or the high school transcript is on file before registration day. This recommendation must be made on a form furnished by the college. Those entering with advanced standing must submit transcripts of record covering high school and college work by August 23, January 24, and June 5, for admission to the fall and spring semesters and the summer session, respectively. An application for evaluation must also be filed, stating which curriculum is desired. In the case of transcripts arriving after the dates specified, persons will run the risk of being obliged to register as special students, without adequate advice concerning their programs with reference to requirements.

ADMISSION TO COLLEGE

GENERAL REQUIREMENTS

Every person admitted as a student to this college must be a resident of the United States (including the territories), must be of good moral character, of good health, and of that class of persons, who, of proper age, would be admitted to the public schools of the State without restriction. At entrance, every student must take an examination to determine his physical fitness to do college work. Two years later a second physical examination must be taken by any student who is a candidate for a teaching credential.

A candidate for admission under any of the three following types of standing must submit the names of three persons by whom he or she has been employed (including the latest employer), if the candidate has not been in attendance at school or college during the semester preceding entrance. These names should be placed on file with the Registrar at least three weeks before the date of registration.

I. Freshman Standing

Graduates of accredited public high schools of California, graduates of other schools of California, and graduates of schools of secondary grade of other States recognized by this college as equal in rank to an accredited public high school of California, who have completed a regular four-year course of study may be admitted to undergraduate standing, as indicated below.

Candidates may be admitted by either of two methods:

1. Regular (clear) admission. High school graduates who present ten recommended units and principals' certificates of recommendation, will be granted regular admission. Graduates of three-year senior high schools must present eight recommended units earned in grades ten, eleven and twelve.

2. Provisional admission. High school graduates who present fewer than ten (or eight) recommended units will be admitted provisionally, and their programs of studies will be subject to arrangement under guidance procedures which will take into account each matriculant's high school record and his needs and objectives in college studies. At the close of the first semester in residence, a complete re-evaluation of the credentials and records of all such students will be made and their status determined.

Certificates of successful examinations before the College Entrance Examination Board will be accepted to admit candidates who can not meet the requirements of any of the above methods. The entrance examinations of the Board are held in June each year (in California, at Berkeley, Los Angeles, San Diego, and other places). Applications for examinations must be addressed to the College Entrance Examination Board, 431 West 117th street, New York. They must be made upon a blank form to be obtained from the secretary of the Board upon request.

II. Advanced Standing

Students from other institutions of recognized collegiate rank may be admitted to advanced standing upon such terms as the Committee on Advanced Standing may deem equitable. In any case a student must have a scholarship record equal to a C average in this college. Every such candidate is required to present a duly certified statement of his college record together with a statement showing in detail the basis upon which the applicant was matriculated and the preparatory subjects for which matriculation credit was given.

Ordinarily, credit is given only for regular college work in institutions uniformly recognized as standard colleges, or colleges maintained primarily for the training of teachers, or professional schools in those fields in which this college grants a special credential.

Credits earned in nonaccredited colleges may be accepted as a basis for advanced standing only to the extent that the applicant can demonstrate to the satisfaction of the teachers college authorities that a satisfactory degree of proficiency has been attained in the courses in question.

Holders of California Teachers' Certificates, or holders of similar certificates recognized by the California State Board of Education, may be admitted with credit to be determined by the Committee on Advanced Standing.

N. B.—Transcripts of record from other institutions will not be returned or copies of them made.

III. Special Standing

An adult who is at least 21 years of age, who has not had the opportunity to complete a satisfactory high school course, but who is considered competent to undertake certain courses, may be admitted to special standing. Entrance examinations in the subjects of fundamental importance for the work proposed will be assigned whenever it seems advisable. Such a student may become a candidate for graduation upon removing the high school deficiency. (Applicants will not ordinarily be admitted directly from the secondary schools to the status of special students.)

MATRICULATION RECOMMENDATIONS FOR CERTAIN CURRICULA

In planning to comply with the foregoing requirements for freshman standing, the prospective student is advised to arrange his high school program so as to enable him to enter without handicaps the work of the curriculum to which he seeks admission. Although deficiencies in certain subjects may be removed after admission to freshman standing, such removal will not only reduce the student's opportunity for elective study but may make it necessary for him to extend his college course beyond the normal period of time required for its completion.

In general preparation for a teacher-training curriculum, the prospective student should have attained proficiency in reading, spelling, handwriting, arithmetic, and the use of English.

In preparation for major work in the biological sciences and in the premedical and predental curricula, the prospective student is advised to include chemistry or physics and French or German. For a college major in mathematics or physics, the student should include French or German, geometry, algebraic theory and trigonometry in his high school

program, and for a major in chemistry he should include algebraic theory and physics or chemistry. Algebraic theory and trigonometry are recommended for a major in commerce. In his preparation for engineering curricula, the prospective student is strongly urged to lay a good foundation in the study of elementary algebra, plane geometry, algebraic theory, trigonometry, physics, chemistry, and mechanical drawing. For a major in English or a foreign language, the study of Latin is recommended.

MATRICULATION

A student is matriculated when he has satisfied all entrance requirements. The standing of all students is conditional during the first semester of residence.

REGISTRATION PROCEDURE

REGISTRATION

Registration takes place on regularly appointed days at the beginning of each semester. Faculty advisers representing every curriculum assist students in the planning of their programs, but students are urged to study the requirements of the curriculum they intend to follow and to decide upon their choice of electives before consulting their advisers. New students should not expect assistance with their programs until registration day. Upper division students, however, are given the privilege of planning their programs during a preregistration period held in the latter part of each semester, when they may hold more lengthy consultations with their advisers than on registration day. Since registration is not complete until fees have been paid, students should be careful to provide themselves with sufficient funds on registration day.

TESTS REQUIRED AT REGISTRATION TIME AND LATER

(See Calendar for dates)

1. An examination for the determination of physical fitness is required of all students at entrance. Appointments are made during registration.

2. All students entering the college are required to take the College Aptitude test, mainly for purposes of guidance and assistance. Exceptions may be made for students who register for six units of work or less, for former graduates of this college, and for graduates of approved four-year colleges.

3. The Subject A Test (English Composition) is required of all entering students. English 1A must be taken by all students whose tests indicate that they are not qualified for English 1B, even though they may not intend to take that course. No student may enroll for his third semester of attendance unless he has qualified for English 1B or is enrolled in English 1A. Exceptions may be made for students transferring credit in English from another college.

4. Passing the Fundamentals Test in reading, spelling, arithmetic and handwriting is a prerequisite for admission to upper division courses in teacher training curricula. Students should take this test upon entrance to college in order that they may have sufficient time to make up deficiencies, if any, before applying for admission to the upper division. Exceptions may be made for former graduates of this or other California State teacher training institutions who have been teachers in service.

5. All candidates for a teaching credential are required to take a speech test. Remedial work will be required of all who fail to pass the test.

LATE REGISTRATION

A new student who registers after the close of the first week of the semester is subject to a limitation of his program. A fee of \$2 must be paid for registration after the regular registration period. After the

first week of the semester, the instructor's approval must be secured for each course entered.

CHANGES IN REGISTRATION

Changes in program may be made only with the approval of the student's adviser. In addition, the instructor's approval must be secured for entering a course after the first week.

A statement regarding withdrawals from class is to be found on page 26.

AUDITORS

Regular auditors must register in the usual way, though this may be done on the first day on which they have classes, without payment of the late fee.

FEES AND DEPOSITS (SUBJECT TO REVISION)

Fees and Deposits Payable at Time of Registration

Fees—Registration

Resident students	\$6 50
Limited students and auditors (5 units or less)—resident (fee per unit)	2 50
*Nonresident students—1st semester	75 00
2d and subsequent semesters	37 50
Training school students	2 50
Late registration fee	2 00

Deposits

General service (library, locker and towel deposits)	5 00
Deposit is for the year. New deposit required only when deposit is used up in service charges.	
Chemistry: 1A, 1B, 6A, 6B, 7, 8, 101, 102, 106A, 106B, 107, 108, 123, 124 (each course, each semester)	5 00
199	2 50
Physics: 1A, 1B, 1C, 1D, 3A, 3B, 107A, 107B	2 00
Surveying: 1A, 1B,	5 00

Local Organizations—

Student Body Fee	5 50
Associated Men Students or Womens' Governmental Association Fee	50

Fees Payable When Service Is Rendered

College Aptitude Test	\$2 00
English—Subject A Test	25
Fundamentals Test	50
Placement Office	2 00
Placement Office—copy of papers—3 for	25
Diploma (parchment)	80
Evaluation of Record for Advanced Standing	2 00
Duplicate Library Card	10
Transcript of Record	1 00
Carbon copy of Transcript of Record	25
Special Examination	2 00

* See page 23 for definition of residence for fee-paying purposes.

Fees Payable During Seventh Week of Each Semester

General Service (library, reader, mimeograph, health)-----	\$3 00
Towel, men -----	1 50
Towel, women-----	1 00
Locker (key or combination padlock—each issue)-----	25
Parking -----	50

In addition to the above, there are laboratory fees and course charges for certain courses, ranging from 50c to \$7.50 per course, which are payable during the seventh week of each semester.

LIVING EXPENSES

Since no dormitories are maintained by the college, it is impossible to supervise the living quarters of college students. Students are required to keep the office of the Dean informed of their places of residence if not living with parent or guardian, and every effort is made to assist them in choosing suitable living accommodations.

The Dean of Women will furnish upon request addresses of homes in which board and room may be secured; also lists of apartment houses and single rooms which may be patronized by students.

Board and room, two meals per day, may be procured at from \$40 to \$45 per month. Single rooms with kitchen privileges at from \$10 to \$20 per month are also available. While at present there are very few accommodations in the immediate vicinity of the college, all of those listed are within reasonable distance and easily accessible to the college.

SELF HELP AND LOAN FUND

A limited amount of clerical work in offices and library may be offered from time to time, but ordinarily is not sufficiently remunerative to reduce expenses materially. An employment service is conducted by an administrative committee, members of which are the Dean of Women, the Dean of Men and the Dean of Liberal Arts.

The San Diego State College Loan Foundation is administered by the Alumni Association for the purpose of helping worthy students with insufficient financial resources to continue their education. Both long and short term loans are available to students who have been in attendance at the college for at least one year. Loan funds are also administered by the Associated Women Students, the City Teachers' Association, the Scottish Rite Woman's Club, and the Entre Nous Club.

SCHOLARSHIPS AND PRIZES

Cap and Gown, Senior Women's Honorary Society, awards a fifty-dollar scholarship annually. Any upper division woman student with a grade-point average of at least 2.01 is eligible to apply. Application is made to the Dean of Women in May of the year preceding awarding of scholarship.

The College Y. W. C. A. has established a scholarship fund to aid women students. Both scholarship and need of applicants are considered in making the award. Application is made to the Dean of Women.

Miss Vivian Conway, past president of the San Diego chapter of the American Association of University Women, offers an annual award, consisting of a first prize of \$10 and a second prize of \$5, for essays written on a subject in the field of French literature. This competition is open to students in the upper division French classes.

ADMINISTRATIVE REGULATIONS

OFFICERS FOR CONSULTATION

Concerning the housing and living arrangements of students, dates and arrangements for all student social affairs, personal advice (women)—
The Dean of Women.

Concerning matters of student-body policy, personal advice (men), etc.—
The Dean of Men.

Concerning supervision of practice teaching, conference, credential requirements, etc.—The Dean of Education.

Concerning matriculation, program of studies and teaching, credits, etc.—
The Registrar and the Board of Student Advisers.

Concerning health and physical condition, college athletics, rowing, etc.—The Director of Physical Education (women); The Director of Physical Education (men).

Concerning relations to the training school, to pupils, routine, etc.—
The Principal of the Training School.

Concerning student-body affairs—The executive officers of the student body; the Dean of Liberal Arts; the Dean of Women; the Dean of Men.

Concerning Appointments to teaching positions—The Placement Secretary.

Concerning use of the buildings—The Superintendent of Buildings.

RESIDENCE

For fee-paying purposes, residence is defined as "the place where one remains when not called elsewhere for labor or other special or temporary purpose, and to which he returns in seasons of repose. There can be only one residence. The residence of the father during his life and after his death, the residence of the mother while she remains unmarried, is the residence of the unmarried minor child. The residence of the husband is the residence of the wife." (Sec. 52, Political Code of the State of California.)

CLASSIFICATION

Regular students are those students who have complied with the requirements of admission and are registered in 6 or more units of work.

Limited students are partial course students who, for adequate reasons, have been permitted to register for less than 6 units of work.

Special students are mature students who have not satisfied all entrance requirements and who are registered for such courses as their ability and preparation qualify them to pursue. Special students may also be limited students.

For convenience in administration, students who have completed 0 to 29 units of work are classified as freshmen; those who have completed

30 to 59 units, as sophomores; those who have completed 60 to 89 units, as juniors; and those who have completed 90 or more units, as seniors.

UNITS OF WORK AND STUDY-LISTS LIMITS

A unit of credit represents approximately, for the average student, three hours of actual work per week through one semester—one hour of lecture or recitation, together with two hours of preparation; or three hours of field or laboratory work.

Sixteen units, in addition to physical education ($\frac{1}{2}$ unit), constitute a normal semester's program for all students. An entering freshman, however, is allowed to enroll for a maximum of 17 units, and all other students for a maximum of 18 units, provided such additional enrollment seems to the adviser necessary or advisable in order to round out the study program. Ordinarily, only 16 units, in addition to physical education, will be credited toward graduation; except that, after a student's first semester at the college, a program of 17 units, in addition to physical education, will be credited provided the student was registered for at least 12 units in the preceding semester and attained an average of not less than 1.5 grade points; 18 units will be credited provided the student attained an average of not less than 2.0 grade points. Any course in which a student received a passing grade may be used in the satisfaction of course requirements, even though such course is in excess of the units credited for graduation. Credit for a program that does not conform to the above regulations can be obtained only by permission of the Scholarship Committee, upon petition. No student will be allowed to register for less than 12 units without the approval of the academic dean of his department.

SCHOLARSHIP GRADES AND GRADE POINTS

The following grades are used in reporting the standing of students at the end of each semester: A, excellent; B, good; C, fair; D, passed; E, conditioned; F, failed; I, incomplete.

Grade points are assigned as follows: Grade A, 3 points per unit; B, 2 points per unit; C, 1 point per unit; D, no points; E, minus 1 point per unit; F, minus 1 point per unit.

The grade E is used to record work which is of low order but which may be made passable. If by the close of the next semester the work has been satisfactorily completed the grade E is changed to a D; otherwise it is changed automatically to an F. The grade I is used to record work which may be of higher order but which is incomplete for some acceptable reason. Ordinarily to change an I to another grade the work must be completed within a year. In case of failure in a course, no credit is given until the course has been repeated.

To qualify for a certificate in any curriculum or for a diploma of graduation or for a transcript of record with recommendation, in transferring to another collegiate institution, a student must have earned as many grade points as the number of units he has attempted; that is, he must have attained an average of at least C grade in all work undertaken at the college. On a transcript of record for a student whose scholarship is below a C average, the honorable dismissal shall be qualified by the phrase "except for scholarship."

ELIGIBILITY FOR PRACTICE TEACHING

No student shall be eligible for practice teaching (Education 116) who has not completed 75 units, been admitted to upper division teacher training, and whose entire record, and also his record for the preceding semester, does not average C grade.

PROBATION AND DISQUALIFICATION

A scholarship record below an average of grade D per unit of work undertaken in any single semester disqualifies a student for further attendance at the college.

Any student whose scholarship record shows a cumulative deficit of 12 or more grade points for all work undertaken in the college to the close of any semester will be placed on probation.

A student whose study lists have averaged less than 12 units per semester will be placed on probation if his cumulative deficit equals or exceeds the average number of units carried per semester.

Any probational student whose scholarship falls below an average grade of C in any single semester is disqualified for further attendance at the college. Probationary status may be continued until the cumulative grade-point deficit be reduced, in the case of a regular student to an amount less than 12 and, in case of a limited student, to an amount less than the average number of units carried per semester.

A disqualified student may be reinstated after an interval of one semester for reasons satisfactory to the Executive Committee. All applications for reinstatement must be in writing.

SPECIAL EXAMINATIONS

Special examinations are classified as (1) matriculation examinations; (2) final examinations taken at other than the regular time; (3) examinations taken for the purpose of removing conditions; (4) examinations for advanced standing.

For every special examination given, the student shall pay a fee of two dollars at the business office. The instructor shall give such examination only on the presentation by the student of a receipt showing that the fee has been paid.

EXAMINATIONS AT SPECIAL TIMES

No final examinations shall be given to individual students before the regular final. Any student who finds it impossible to take a final examination on the date scheduled must make arrangements with the instructor to have an incomplete grade reported and must take the deferred final examination not later than the end of the second semester following that in which the incomplete was given. No exceptions shall be made to this rule without the approval of the dean of the department and the instructor concerned.

CONDUCT OF EXAMINATIONS

All final examinations shall be written in Blue Books or other forms which shall be furnished by the college and distributed by the instructor

at the beginning of the examination period. No books or papers of any kind shall be brought into the examination room, except by special order of the instructor.

WITHDRAWALS FROM CLASS

A student may not withdraw from class without the permission of the proper study-lists officer on a "change of registration card," which must be filed in the Registrar's Office. An unauthorized withdrawal from a class will result in a mark of failure on the student's record. A withdrawal after the third week of a semester except for reasons beyond the student's control is interpreted as a failure in the course. A student who is obliged on account of ill health to withdraw completely from college after the third week may, upon presentation of a physician's certificate, have his courses dropped from his record without penalty if he has maintained a C average in all his studies up to the beginning of the current semester. Any student who withdraws completely from college for any other cause after the third week may have those courses in which his grade was C or better at the time of his withdrawal dropped from his record without penalty, but a grade of F (failure) will be recorded for all courses in which his work was below C at that time.

PLACEMENT SERVICE

A Placement Office is maintained by the college as a clearing house of employment information for superintendents and employing boards and students of the college. While the purpose of this office is to assist candidates in securing positions, it is the primary aim of the office to bring about a better adjustment of the teacher to the community. A complete record of college attainments is kept in a confidential file for each registrant of the office and this material is made available to employers. Recommendations are based on records which indicate every item in the candidate's equipment, and particular care is taken to select in each case the candidate who can best meet the requirements of the position. A fee of \$2 is payable each year in which active service is desired.

STUDENT LIFE

ORGANIZATIONS

Student affairs, and organizations to foster them, are many and varied, but are well coordinated through the central student body organization, The Associated Students. The following list indicates the major activities:

Art Guild, College Orchestra, El Club Azteca, Engineering Club, Four Arts Guild, Gamma Psi (English); International Relations Club, Men's Glee Club, Mu Gamma (Music), Philharmonia, Psychology Club, Skull and Dagger, Treble Clef Club.

National Honor Societies: Alpha Mu Gamma (Languages), Delta Kappa (Chemistry), Kappa Delta Pi (Education), Pi Gamma Mu (Social Science).

Men: Associated Men Students, Blue Key (national), Ocoatl (lower division), College Band, Physical Education Club, Alpha Phi Omega (national), Delta Pi Beta, Epsilon Eta, Eta Omega Delta, Kappa Phi Sigma, Omega Xi, Phi Lambda Xi, Sigma Lambda, Tau Delta Chi.

Women: Women's Governmental Association, Cap and Gown, College Y. W. C. A., Women's Athletic Association, Alpha Sigma Alpha (national), Delta Chi Phi, Epsilon Pi Theta, Gamma Phi Zeta, Kappa Theta, Phi Kappa Gamma, Phi Sigma Nu, Shen Yo, Sigma Pi Theta, Tau Zeta Rho, Theta Chi.

Men's Athletics: Football, baseball, basket ball, track, swimming, tennis, cross country, wrestling, fencing, and golf.

Women's Athletics: Rowing, swimming, tennis, golf, horseback riding, and seasonal sports.

Publications: The Aztec (weekly), Del Sudoeste (year book), and El Palenque (quarterly).

ALUMNI ASSOCIATION

The college has an active alumni association. Since its reorganization in March, 1929, the Association has steadily gained in membership. The annual Homecoming is an important event each year; other meetings take place on dates of important athletic contests. The Association also sponsors the organization of Aztec clubs in various communities. Information concerning the Association may be obtained by writing the secretary at the college.

DEGREE REQUIREMENTS

I

GENERAL REQUIREMENTS FOR THE DEGREE OF BACHELOR OF ARTS IN THE CURRICULA WITH TEACHING CREDENTIALS

Total Units, Length of Time, and Residence

A minimum of 124 units¹ of college work is required, representing a four-year course. Students who are planning to secure California teaching credentials through graduation from this college are urged to follow the curriculum pattern for the credential or credentials which they wish to earn, throughout the entire four years. Not less than 54 units must be earned in the junior and senior years; at least 30 units of work at this college; twenty-four of these residence units must be taken with the rank of senior, at least twelve of which must be taken in the fall or spring semester of the final year before graduation.

Admission to Upper Division Teacher Training

Students are not admitted to upper division status in teacher training on the basis of merely having completed the lower division work. Application for admission to upper division work should be made during the final semester of the sophomore year and a committee of the faculty, appointed for this purpose, will review the candidate's records and make recommendations regarding admission. In the main, this committee will be guided by the following factors:

1. The completion of the lower division work of a given teacher training curriculum including all the preliminary tests required of teacher training candidates with a scholastic record of C or better.
2. Physical fitness as shown by a prescribed examination given by a college physician.
3. Fitness for teaching, to be based on recommendations by members of the faculty and on the judgment of the committee as a result of personal interviews with the candidate.

Upper Division Course Requirements

At least 40 of the units completed during the junior and senior years shall be in upper division courses (see definition under heading Courses of Instruction); junior standing requires 60 units of credit. Introductory courses open to first semester freshmen when taken in the junior or senior year may involve either additional work or reduction in the number of units of credit.

Advanced Standing in Teacher Training

A maximum of 18 units in courses in education will be credited toward degree requirements in case such work was taken more than 5 years

¹ For definition of units see page 24.

before entering upon the degree curriculum at this college (date of first work taken after an evaluation of record has been made, for students entering with advanced standing). After an interval of 5 years subsequent to last attendance, evaluations are subject to revision with respect to deduction of credit in education courses and such new requirements as may have been put into effect.

Students formerly in attendance will not be considered to be working in the degree curriculum until an evaluation and statement of credit has been secured from the registrar's office. All courses taken either at this college or elsewhere must be approved by an official adviser or the registrar (for courses taken elsewhere) in order to be credited toward meeting degree requirements.

Summary of Basic Requirements, Common to All Curricula in This Group

Education	18 units
Lower division courses in English.....	6 units
Lower division courses in natural science.....	14 units
Physical Education activity.....	2 units
Political Science 101.....	2 units
Psychology 1A	3 units
Lower division courses in social science.....	14 units

Explanation of the basic requirements:

In the different curricula leading to the various teaching credentials, specific courses are required in the various subjects listed in the summary which may total more than the minimum given in the summary. In addition, the following information must be taken into consideration in connection with fulfilling the requirements in each subject.

English

Courses in journalism or in speech arts are not accepted in satisfying this requirement. The following courses or their equivalents are required: English 1A, 1B, and 2 or 3.

Natural Science

The electives in natural science may be reduced to a minimum of 8 units if the student presents acceptable grades from the high school in natural science in laboratory courses offered exclusively for the third or fourth year students. In general, each year's work of high school science will thus reduce the requirements by 3 units of credit. No college credit will be given for the high school work; merely an exemption of the requirements will be permitted. The college courses which may be used in satisfaction of this requirement are: Agriculture 20, Astronomy 1, 5, 11; Biological Science 1, 10A-10B, Botany 2A-2B, 4, 5, 7; Chemistry, 1A-1B, 6A-6B, 7-8; Geography 1, 3; Geology 1A, 1B; Physical Science 1, Physics 1A-1B, 1C-1D, 2A-2B, 3A-3B; Zoology 1A-1B.

Political Science 101

Political Science 113 or 152, or History 171A-171B or 173A-173B will be accepted as substitutes for this requirement.

Social Science

Courses in the following departments may be used in satisfaction of this requirement: Anthropology, economics (except 14A-14B, 24A-24B, 25A and 25B), geography (except 1 and 3), history, political science, social science, sociology.

Major and Minor Requirements

For the elementary school credential, two academic teaching minors are required; for the junior high school credential, or for both the elementary and junior high school credentials together, an academic teaching major and an academic teaching minor are required. For the special credentials, the requirement consists of a major in the special subject and an academic teaching minor. An academic teaching major consists of a minimum of 24 units in a field other than education, twelve of which must be in the upper division. A major in a special subject varies from 24 to 40 units as specified in the requirements for the various curricula. An academic teaching minor consists of 12 units in a field other than education, six of which must be in the upper division. Academic teaching majors and minors may be established in the following fields: English, foreign languages, general science, mathematics, and social sciences (economics, geography, history, political science, sociology). Academic teaching minors may also be established in art, music, and physical education.

Candidates for the academic teaching major in the field of English will be expected to show credit in English 1A, 1B and 2 or 3 with six units of electives in the lower division; English 130A and 130B and six units of electives in the upper division. Candidates for the academic teaching minor in this field will be expected to show credit in English 1A, 1B and three units elected from 2, 3, 4A, 4B, 52A, 52B in the lower division; three units elected from English 130A or 130B, the remaining three units elected from English 101, 117, 130A, or 130B in the upper division.

Candidates for the academic teaching major in the field of general sciences must meet the general requirements of fourteen units of natural science in the lower division including Biology 10A-10B, unless taken in high school. The remaining units to complete the major must be chosen so as to include a year course in a biological science unless Biological Science 10A-10B is taken in college, a year course in physics and a concentration of twelve units, at least six of which are upper division, in one major subject (botany, chemistry, physics, zoology).

Candidates for an academic teaching major in the field of the social sciences must meet the general requirements of fourteen units of social science in the lower division including Geography 2 and Social Science 1. The remaining twenty units must be chosen so as to include a year course of six units in history in either the lower or upper division and a concentration of twelve units, at least six of which are upper division, in one major subject (economics, geography, history, political science). The following courses in economics may not be applied to the teaching major in social science: 14A-14B, 18A-18B, 24A-24B, 25A, 25B, 125A-125B, 140, 160A-160B, 161, 162, 163, 164.

Women candidates for an academic teaching minor in the field of physical education will be expected to show credit in Physical Education 36A, 36B, 37 or 38A, 38B, 53, and Hygiene 2 in the lower division; six units elected from Physical Education 102, 157A, 157B, 158, 161, 164, 170, 178A, or 178B in the upper division.

Combinations of Credentials

In the case of students seeking more than one teaching credential, the curriculum for each credential must be completed in full, with only such exceptions as are indicated in the requirements. After July 1, 1936, for each credential in addition to one, at least 12 additional units of credit must be earned, this work to be in electives in nonprofessional fields only, after the basic curriculum requirements have been satisfied.

Scholarship

The number of grade points acquired in this college by the candidate for a degree must be equal to the number of units attempted. (See page 24 for an explanation of scholarship grades and grade points.)

Preparation for Graduate Work

Students who take the A.B. degree with only a special credential and who contemplate doing graduate work for a master's degree in an academic field at another institution of higher learning, will find it advantageous to use their electives to lay a foundation for that work. A student who plans to do graduate work in the field of his academic teaching major is advised so to arrange his electives as to complete the presecondary major to avoid the necessity of making up an undergraduate deficiency.

MEMORANDA FOR STUDENTS WHO WISH TO BECOME CANDIDATES FOR TEACHING CREDENTIALS

The college offers curricula leading to the A.B. degree with the following teaching credentials:

1. Elementary school credential authorizing the holder to teach any or all subjects in all grades of any elementary school in California.
2. Junior high school credential authorizing the holder to teach any or all subjects in the seventh, eighth, and ninth grades of any elementary or secondary school in California.
3. Special credential in Art authorizing the holder to teach art subjects in any grade of the public schools of California.
4. Special credential in Commerce authorizing the holder to teach commercial subjects in any grade of the public schools of California.
5. Special credential in Music authorizing the holder to teach music in any grade of the public schools of California.
6. Special credential in Physical Education authorizing the holder to teach physical education in any grade of the public schools of California.

For the requirements for the School Administration and School Supervision Credentials see page 47 of this bulletin.

On the following pages of this bulletin are outlines of the curricular requirements for the A.B. degree with each of the credentials enumerated above. These outlines are for the purpose of guiding the student in his preparation for professional work. Any serious lack of preparation or scholarship in any of the subjects therein indicated, whether it be in the student's high school or lower division college record may require additional work in that subject if, in the opinion of the Committee of Admission to Upper Division Teacher Training, the candidate's record shows the need of such additional work.

Freshmen and students transferring to the college from another collegiate institution should take the following tests at their earliest opportunity: (Consult the College Calendar for the dates when these tests are to be given.)

1. College Aptitude Test.
2. Subject A Test (English Composition).
3. Fundamentals Test (Reading, Spelling, Arithmetic and Hand-writing).
4. Speech Test.

The College Aptitude Test is for the purpose of assisting the student in overcoming his weaknesses and guiding him in his future work in the college. In case of failure to pass either of the last three tests enumerated above the student should immediately consult with his adviser relative to the remedial work he must do in that subject and arrange his program accordingly.

Several faculty members who are acquainted with teacher training curricula have been designated as teacher training advisers. There are advisers for lower division (freshman-sophomore) and upper division (junior-senior) students. The student should secure the assistance of one of the advisers for his group in making out his program of studies and learn to rely upon his adviser and the information contained in this bulletin and not to depend upon unreliable sources of information.

The subjects in the first two years of a given teacher training curriculum are quite similar to those being taken by most college students. In the last semester of the sophomore year the student who wishes to begin his professional work in teacher training must apply for admission to upper division teacher training. This is done by going to the office of the secretary of this committee and filing an application. The remaining procedure is explained under the general heading Admission to Upper Division Teacher Training, found on page 28 of this bulletin. The student's record for his first two years in college is of considerable weight in securing admission to teacher training, so it is of importance to him to make the most of his opportunities. The committee will not be impressed favorably by excuses from students who have deficiencies in their records.

It is recommended that the student give careful consideration to the teaching field in which he is most interested and best fitted to function and concentrate upon preparation in that field rather than scatter his efforts by attempting to secure several types of teaching credentials. After July 1, 1936, the A.B. degree and only one teaching credential may be secured upon completion of a given curriculum and one hundred and twenty-four units of work; each additional credential will require a minimum of twelve additional units of work.

Finally, the student's admission to college is predicated upon the assumption that he has reached a stage of maturity that will enable him to pursue his daily work and preparation in the courses in which he is enrolled without any considerable supervision and direction from his instructors. He will have a greater degree of freedom in the use of his time than he has had hitherto. One of the challenges of college life is the ability to meet and assume the responsibilities found therein in a satisfying way. The student may easily fall into the habit of justifying his failures or he may seek intelligently to determine their real causes and proceed to correct them. A definite budgeting of the student's time, both while at home and on the campus, will be of great assistance to him. If the student finds that his work is unsatisfactory for any considerable period of time he should consult with his dean in order to try to solve his difficulty.

CURRICULA LEADING TO TEACHING CREDENTIALS

A.B. Degree With Elementary School Credential

FRESHMAN YEAR

First Semester—	Units
Biol. Science 10A, ¹ Science of Life-----	3
Geography 1, Elements (Natural Science)-----	3
Physical Education 1A or 36A-----	$\frac{1}{2}$
Art 6A, Structure-----	2
English 1A or 1B ² , Freshman English-----	1 or 3

Second Semester—

Biol. Science 10B, ¹ Science of Life-----	3
Geography 2, Regions (Social Science)-----	3
Physical Education 1B or 36B-----	$\frac{1}{2}$
Music 1A, Music Reading and Ear-training-----	2
English 1B, Freshman English, or 2 or 3 Sophomore English-----	3

Either Semester—

Social Science 1, Foundations of Civilization-----	3
Electives to meet requirements in Natural Science, Social Science and majors and minors 3, 4-----	8 or 6
	<hr/> 32

SOPHOMORE YEAR

First Semester—	Units
Physical Education 1C or 37, Game and Rhythmic Activities-----	$\frac{1}{2}$
English 2 or 3, Sophomore English (unless taken in freshman year)-----	3

Second Semester—

Physical Education 1D or 38A-----	$\frac{1}{2}$
Physical Education 53, Physical Education in the Elementary School, or Physical Education 54, Administration of Physical Education-----	2

Either Semester—

Psychology 1A, General-----	3
Art 61A, Elementary Crafts-----	2
Art 61B, Elementary Crafts-----	2
Electives to meet requirements in Natural Science, Social Science and majors and minors 3, 4, 5-----	19-22
	<hr/> 32

¹ Possible substitutions for the requirement in Biol. Science 10A-10B.

1. High school Biology (year course with laboratory work).

2. Botany 2A-2B and Zoology 1A-1B—16 units.

3. High school Botany and Zoology 1A-1B.

4. High school Zoology and Botany 2A-2B.

5. High school Botany and high school Zoology.

6. Biological Science 1 and Physical Science 1—6 units.

² Depending on result of Subject A test.

³ See Summary of Basic Requirements for total requirements in English, Natural Science, and Social Science.

⁴ Unless minor is English, General Science or Social Science.

⁵ If 6 units in minor taken in freshman year, none needed in sophomore year.

JUNIOR YEAR

First Semester—	Units
Psychology 102, Genetic-----	3
Education 147, Education Practicum—Lower Levels-----	10
Second Semester—	
Education 108, Educational Measurements-----	3
Education 148, Education Practicum—Upper Levels-----	10
Either Semester—	
Physical Education 151, ¹ Health Education, or elective-----	2 or 3
Political Science 101, ¹ American Institutions, or elective-----	2 or 3
	<u>30-32</u>

SENIOR YEAR

First Semester—	
Education 116, Practice Teaching ² -----	6 or 7½
Either Semester	
Education 106, ³ Philosophy of Education-----	3
Electives including two minors ⁴ (for the year)-----	21 or 19½
	<u>30</u>

SUMMARY

Art 6A, 61A, 61B-----	6
Education 106, 108, 116, 147, 148-----	32 or 33½
English-----	6 or 7
Music 1A-----	2
*Natural Science (incl. Biol. Science 10A-10B and Geog. 1)-----	14
Physical Education 1A-B-C-D or 36A-36B, 37, 38A ; 53 ; 151--	6
Political Science 101-----	2
Psychology 1A, 102-----	6
**Social Science (incl. Social Science 1 and Geography 2)-----	14
Electives, including two academic teaching minors-----	36 or 33½
	<u>124</u>

¹ May be deferred until senior year and elective taken, if desired.

² Candidates for the elementary school credential in combination with any other type of credential are required to do not less than 6 units of practice teaching in the elementary school.

³ Not required if junior high school or special credential is earned at the same time.

⁴ If 6 units in minor taken in junior year, none needed in senior year.

* See page 29.

** See page 30.

A.B. Degree With Junior High School Credential

FRESHMAN YEAR

First Semester—	Units
Biol. Science 10A, ¹ Science of Life-----	3
Geography 1, Elements (Natural Science)-----	3
Physical Education 1A or 36A-----	$\frac{1}{2}$
English 1A or 1B ² -----	1 or 3

Second Semester—

Biol. Science 10B, ¹ Science of Life-----	3
Geography 2, Regions (Social Science)-----	3
Physical Education 1B or 36B-----	$\frac{1}{2}$
English 1B or 2 or 3-----	3

Either Semester—

Social Science 1, Foundations of Civilization-----	3
Electives, ³ including major and minor ⁴ (for the year)-----	10-12
	<hr/> 32

SOPHOMORE YEAR

First Semester—

English 2 or 3, Sophomore English (unless taken in freshman year)-----	3
Psychology 1A, General-----	3
Physical Education 1C or 38A-----	$\frac{1}{2}$

Second Semester—

Physical Education 1D or 38B-----	$\frac{1}{2}$
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Either Semester—

Electives, ³ including major and minor ⁵ (for the year)-----	25-28
	<hr/> 32

JUNIOR YEAR

First Semester—

Education 125, Elementary School Curriculum-----	3
Political Science 101, American Institutions-----	2
Psychology 102, Genetic-----	3
Education 108, Educational Measurements-----	3

¹ Possible substitutions for the requirements in Biological Science 10A-10B:

1. High school Biology (year course with laboratory work).
2. Botany 2A-2B and Zoology 1A-1B—16 units.
3. High School Botany and Zoology 1A-1B.
4. High School Zoology and Botany 2A-2B.
5. High School Botany and High School Zoology.
6. Biological Science 1 and Physical Science 1—6 units.

² Depending on result of Subject A test.

³ See Summary of Basic Requirements for total requirement in English, Natural Science, and Social Science.

⁴ Unless major or minor is English, General Science or Social Science.

⁵ If 6 units in minor taken in freshman year, none needed in sophomore year.

Second Semester—	Units
Education 116, Practice Teaching-----	3

Either Semester—	
Curriculum in Field of Academic Major-----	2
Physical Education 151, Health Education-----	2
Electives, including major and minor (for the year)-----	12
	<hr/>
	30

SENIOR YEAR

First Semester—	
Education 116, Practice teaching-----	3

Second Semester—	
Education 121, Principles of Secondary Education-----	3

Either Semester—	
Education, elective -----	3
Electives, including major and minor ¹ (for the year)-----	21
	<hr/>
	30

SUMMARY

Education 108, 116, 121, 125, Curriculum in Field of Academic Major, and elective in Education-----	20
English -----	6 or 7
*Natural Science (incl. Biol. Science 10A-10B and Geog. 1) --	14
Physical Education 1A-B-C-D or 36A-36B, 38A-38B; 151----	4
Political Science 101-----	2
Psychology 1A, 102-----	6
**Social Science (incl. Social Science 1 and Geography 2)-----	14
Electives, including academic teaching major and minor-----	58 or 57
	<hr/>
	124

¹ If 6 units in minor taken in junior year, none needed in senior year.

* See page 29.

** See page 30.

A.B. Degree With Special Credential in Art

This course leads to the A.B. degree and to the Special Credential in Art which entitles the holder to teach art in senior high, junior high, and elementary schools.

LOWER DIVISION

	Units
Art 6A-6B, Structure-----	4
Art 61A-61B, Elementary Crafts-----	4
Education 19, Art in the Elementary School-----	2
English 1A, 1B, 2 or 3, Freshman and Sophomore English-----	6 or 7
†Natural Science-----	14
Physical Education 1A-1B, 1C-1D (men) ; 36A-36B, 38A-38B (women) -----	2
Psychology 1A, General-----	3
†Social Science, incl. Social Science 1, Foundations of Civilization -----	14
Electives, including additional art for major and courses for academic teaching minor ¹ -----	14-15
	<hr/> 64

UPPER DIVISION

Education 116, Practice Teaching (4 units in special field) --	6
Education 119, Art in the Junior High School-----	2
Education 121, Principles of Secondary Education-----	3
Education 125, Elementary School Curriculum-----	3
Education elective (suggested: Education 106 or 108 or 130) --	3
Political Science 101, American Institutions (or substitute) --	2
Electives, including additional art and academic teaching minor	41
	<hr/> 60

SUMMARY

Art major -----	40 ²
Education -----	19
English -----	6 or 7
*Natural Science-----	14
Physical Education-----	2
Political Science 101, American Institutions-----	2
Psychology -----	3
**Social Science (including Social Science 1)-----	14
Electives, incl. academic teaching minor-----	23-24
	<hr/> 124

¹ Unless minor is English, general science, or social science.

² Maximum credit allowable in art.

† See Summary of Basic Requirements.

* See page 29.

** See page 30.

A.B. Degree with Special Credential in Commerce

This course leads to the A.B. degree and to the Special Credential in Commerce, which entitles the holder to teach commercial subjects in senior high and junior high schools.

In addition to the following academic requirements, satisfactory evidence of one-half year, or 1000 hours of approved experience in the field named in the credential must be submitted. For the credentials in the General Business Subfield twelve semester hours of work above the requirements for a bachelor's degree may be offered in lieu of the six months of full-time experience. At least six semester hours of the twelve must be in business or economics.

ACCOUNTING AND SECRETARIAL SUBFIELDS.

LOWER DIVISION

	Units
Economics 1A-1B, Principles of-----	6
Economics 14A-14B, Accounting-----	6
English 1A-1B, Freshman English-----	4
Geography 1, Elements-----	3
Geography 2, Regions-----	3
Mathematics 2, Mathematics of Investment-----	3
*Natural Science-----	11
Physical Education 1A-1B-1C-1D, or 36A-36B, 38A-38B-----	2
Secretarial Training A, Business Mathematics-----	1
Secretarial Training 1A-1B, Typewriting-----	6
Secretarial Training 5A-5B, Stenography-----	10
Secretarial Training 10A, Business Correspondence-----	3
Social Science 1, Foundations of Civilization-----	3
Electives (Recommended: Speech Arts 1A)-----	3
	<hr/> 64

UPPER DIVISION

Economics 11, Economic History of the United States-----	3
Economics 18A-18B, Commercial Law-----	6
Economics 100, Modern Economic Thought, or a course in Consumer Economics-----	3
Economics 140, Statistical Methods-----	3
Economics 160A-160B, Advanced Accounting-----	6
Economics 161, Cost Accounting-----	3
Economics 163, Machine Accounting-----	3
Education 21, Penmanship Methods-----	2
Education 116, Practice Teaching-----	6
Education 121, Principles of Secondary Education-----	3
Education 130, Educational Psychology-----	3
Education 160, Commercial Education-----	2
Education 163, Stenography-----	2
Education 164, Bookkeeping-----	2
Education 165, Typewriting-----	2
Geography 141, Economic Geography, or a course in Foreign Trade-----	3
Political Science 101, American Institutions-----	2
Psychology 1A, General-----	3
Secretarial Training 3A, Office Methods and Appliances-----	3

If the Secretarial subfield only is elected, Mathematics 2 and Education 164 and all upper division courses in accounting may be omitted, but 12 units in upper division courses in commerce must be included.

If the accounting subfield is elected, Secretarial Training 5A-5B and Education 163, 165 may be omitted.

GENERAL BUSINESS SUBFIELD

LOWER DIVISION

	Units
Economics 1A-1B, Principles of-----	6
Economics 11, Economic History of the United States-----	3
Economics 14A-14B, Accounting-----	6
Economics 18A-18B, Commercial Law -----	6
Economics 25A, Salesmanship-----	2
Economics 25B, Advertising-----	2
English 1A-1B, Freshman English-----	4
Geography 1, Elements-----	3
Geography 2, Regions-----	3
Mathematics 2, Mathematics of Investment-----	3
*Natural Science-----	11
Physical Education 1A-1B-1C-1D or 36A-36B, 38A-38B-----	2
Secretarial Training A, Business Mathematics-----	1
Secretarial Training 1A-1B, Typewriting-----	6
Secretarial Training 10A, Business Correspondence-----	3
Social Science 1, Foundations of Civilization-----	3
	<hr/> 64

UPPER DIVISION

Economics 100, Modern Economic Thought, or a course in Consumer Economics -----	3
Economics 135, Money & Banking-----	3
Economics 140, Statistical Methods-----	3
Economics 163, Cost Accounting-----	3
Education 21, Penmanship Methods-----	2
Education 116, Practice Teaching-----	6
Education 121, Principles of Secondary Education-----	3
Education 130, Educational Psychology-----	3
Education 160, Commercial Education-----	2
Education 161, Junior Business Training-----	2
Education 165, Typewriting-----	2
Geography 141, Economic Geography, or a course in Foreign Trade -----	3
Political Science 101, American Institutions-----	2
Psychology 1A, General -----	3
Secretarial Training 3A, Office Methods and Appliances-----	3
Electives (including a minimum of 5 units in the upper division, 3 units of which must be in commerce. Speech Arts 1A recommended.)-----	17
	<hr/> 60

* See page 29.

A.B. Degree With Special Credential in Music

This course leads to the A.B. degree with a Special Credential in Music entitling the holder to teach music in senior high, junior high, and elementary schools.

LOWER DIVISION

	Units
Education 17, Music in the Elementary School-----	2
English 1A, 1B, 2 or 3, Freshman and Sophomore English----	6 or 7
Natural Science-----	14
Physical Education 1A-1B, 1C-1D (men) ; 36A-36B, 38A-38B (women) -----	2
Psychology 1A, General (sophomore year)-----	3
Social Science, including Social Science 1, Foundations of Civilization -----	14
Music for major and electives, including an academic teaching minor ¹ -----	22 or 23
	<hr/> 64

UPPER DIVISION

Education 116, Practice Teaching (at least 4 units in Music) --	9
Education 121, Principles of Secondary Education-----	3
Education 127, Music in the Secondary School-----	2
Education 145, Org. and Adm. of Music Education-----	2
Political Science 101, American Institutions-----	2
Music for major and electives, including courses for an academic teaching minor-----	42
	<hr/> 60

† See Summary of Basic Requirements.

¹ Unless minor is English, general science or social science.

SUMMARY

	Units
Education -----	18
English -----	6 or 7
Music major (including Applied Music ¹) -----	40 ²
* Natural Science -----	14
Physical Education -----	2
Political Science 101, American Institutions -----	2
Psychology -----	3
** Social Science (including Social Science 1) -----	14
Electives, including an academic teaching minor -----	24-25
	124

¹ Applied Music credits, 1½ units per semester, for not less than one lesson per week, with six hours practice per week, totaling at least ten hours instruction and one hundred hours practice per semester. Applied Music is taken under outside private teachers, subject to the approval and supervision of the music department of the college, which determines credit and grades by examination. Credit not allowed for beginning work in Applied Music.

Minimum attainment for completion of Piano Requirement in Music curriculum is the ability to play accompaniments such as are found in the Teachers Manuals of the Progressive Music Series, Books Three and Four.

Applicants for admission to the Music curriculum will be required to take an entrance examination in Piano, to determine their ability to play satisfactorily hymns and folk songs of the type found in the Golden Book of Favorite Songs. Those not able to meet this requirement must study piano without credit until able to pass such an examination. They may also take examinations in Fundamentals of Music, and Harmony, for advanced standing in these subjects.

² Maximum credit allowable in music.

* See page 29.

** See page 30.

A.B. Degree With Special Credential in Physical Education

This course leads to the A.B. degree and to the Special Credential in Physical Education which entitles the holder to teach physical education in senior high, junior high, and elementary schools.

MEN

LOWER DIVISION

	Units
Physical Science 10A-10B, Science of Life (unless taken in high school) -----	6
or	
Biology 1A, General -----	4
English 1A, 1B, 2 or 3, Freshman and Sophomore English -----	6 or 7
Hygiene 1 -----	2
Natural Science -----	4 or 6
Physical Education :	
1A-1B, 1C-1D -----	2
6A, Tennis -----	$\frac{1}{2}$
54, Administration -----	2
62A, 62B, Gymnastic Activities -----	4
Sports and Athletics ¹ -----	3
Psychology 1A, General (sophomore year) -----	3
Med Cross Swimming Test -----	$\frac{1}{2}$
Social Science, incl. Social Science 1 -----	14
Speech Arts 1A, Fundamentals of Public Speaking -----	3
Biology 1B, General -----	4
Electives, incl. courses to meet minor requirements ² -----	9-10
	<hr/> 64

UPPER DIVISION

Education 116, Practice Teaching -----	6
Education 121, Principles of Secondary Education -----	3
Education 125, Elementary School Curriculum -----	3
Education, elective -----	6
Physical Education :	
101. Emergencies -----	1
151, Health Education -----	2
155, Applied Anatomy -----	2
156A-156B, Sports Methods -----	4
166, Technique of Officiating -----	1
169, Technique of Teaching Activities -----	3
171, Community Recreation -----	2
172, Principles -----	2
179, Tests and Measurements -----	2
Sports and Athletics ¹ -----	3

¹ Men majoring in Physical Education must actively participate in three sports each year.

² Unless minor is English, general science, or social science.

† See Summary of Basic Requirements.

MEN—Continued

UPPER DIVISION—Continued

	Units
Political Science 101, American Institutions-----	2
Psychology 102, Genetic (first semester, junior year)-----	3
Zoology 100, Embryology-----	3
or	
Zoology 114A, Genetics-----	2
or	
Zoology 121, Entomology-----	3
Electives -----	9-10
	<hr/> 60

SUMMARY

Education -----	18
English -----	6 or 7
Speech Arts 1A-----	3
*Natural Science (including Biol. Science 10A-10B or substitute and Zoology 1B)-----	14
Physical Education major-----	26
Political Science 101, American Institutions-----	2
Psychology -----	6
**Social Science (including Social Science 1)-----	14
Zoology (upper division)-----	2 or 3
Electives, including academic teaching minor-----	31-33
	<hr/> 124

* See page 29.

** See page 30.

A.B. Degree With Special Credential in Physical Education

This course leads to the A.B. degree and to the Special Credential in Physical Education which entitles the holder to teach physical education in senior high, junior high, and elementary schools.

WOMEN

LOWER DIVISION

	Units
Biol. Science 10A-10B, Science of Life (unless taken in high school) -----	6
or	
Zoology 1A, General-----	4
English 1A, 1B, 2 or 3, Freshman and Sophomore English----	6 or 7
Hygiene 2, Personal and Civic-----	2
Music 2A, Appreciation and History of Music-----	2
Natural Science-----	4-6
Physical Education :	
36A, Rhythmics, Formal Activities, Games-----	$\frac{1}{2}$
36B, Athletic Games-----	$\frac{1}{2}$
37, Game and Play Activities for the Elementary School----	$\frac{1}{2}$
38B, Recreational Activities-----	$\frac{1}{2}$
53, Physical Education in the Elementary School-----	2
55A-55B, Swimming—Beginning and Intermediate-----	
or	
55C, Life Saving-----	1
56, Tennis -----	$\frac{1}{2}$
57, Golf -----	$\frac{1}{2}$
59, Archery -----	$\frac{1}{2}$
Psychology 1A, General-----	3
Sociology 50, General-----	
or	
Anthropology 50A, Man's Evolutionary History-----	3
Social Science, incl. Soc. Science 1, Foundations of Civilization	11
Speech Arts-----	3
Zoology 1B-----	4
Electives, including academic teaching minor ¹ -----	12 $\frac{1}{2}$ –13 $\frac{1}{2}$
	64

UPPER DIVISION

Education 108, Educational Measurements-----	3
Education 116, Practice Teaching-----	6
Education 121, Principles of Secondary Education-----	3
Education 125, Elementary School Curriculum-----	3
Education 140, Educational Statistics-----	
or	
Education 106, Philosophy-----	3
Physical Education :	
102, Emergency and Safety Programs-----	1
151, Health Education-----	2

¹ Unless minor subject is English, general science, or social science.

WOMEN—Continued
UPPER DIVISION—Continued

Physical Education—Continued	Units
154, Applied Anatomy-----	2
157A-157B, Sports Methods-----	4
158, Stunts and Tumbling-----	1
160, Formalized Activities-----	2
161, Folk Dancing-----	2
164, Dancing -----	2
169, Technique of Teaching Activities-----	3
170, Recreational Leadership-----	2
173, Principles -----	2
153, Administration of Secondary Physical Education-----	2
175, Current Problems-----	2
177, Individual Program Adaptations-----	2
185, Techniques of Individual and Dual Sports-----	3
Political Science 101, American Institutions-----	2
Psychology 102, Genetic (first semester, junior year)-----	3
Zoology 100, Embryology-----	
or	
Zoology 106, Comparative Anatomy of the Vertebrates-----	
or	
Zoology 121, Entomology-----	
or	
Zoology 113B, Ornithology-----	3
Electives -----	2
	60

SUMMARY

Education -----	18
English -----	6 or 7
Hygiene -----	2
Music -----	2
*Natural Science (including Biol. Science 10A-10B or substitute, and Zoology 1B)-----	14
Physical Education major-----	38½
Political Science 101, American Institutions-----	2
Psychology -----	6
**Social Science (incl. Social Science 1 and Sociology 50 or Anth. 50A)-----	14
Speech Arts-----	3
Zoology (upper division)-----	3
Electives, including academic teaching minor-----	14½-15½

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* See page 29.

** See page 30.

DIPLOMA OF GRADUATION

A diploma of graduation carrying with it any of the credentials the college is authorized to grant or any combination of them may be granted to the holder of a bachelor's degree from an accredited college, upon the completion of a minimum of 24 units. Ordinarily at least one semester of residence during the academic year is required subsequent to securing the degree; the remainder of the work may be in summer session or, in the case of students who had attended the college prior to attaining the degree elsewhere, in credit earned as an upper division student. The candidate for a diploma must offer the equivalent of all of the requirements listed in the curriculum for the A.B. degree with the credential or credentials sought.

ADMINISTRATION AND SUPERVISION CREDENTIALS

The State Board of Education has authorized this college to make recommendations for the issuance of School Administration and School Supervision credentials for holders of elementary and junior high school credentials who have completed the required 15 units beyond the requirements for the teaching credential and who have completed two years of successful teaching experience. *But holders of general secondary credentials must take the required courses in and receive recommendation from an accredited graduate school*, even though they may wish to qualify for administrative or supervisory work only on the elementary or junior high school level.

In order to secure the recommendation of this college for either one of these credentials, the following number of the 15 required units must be completed at this institution:

1. A.B. degree graduates of this college—6, subsequent to graduation.
2. Other graduates of this college—15.
3. Graduates of other institutions—9.
4. County certified teachers—12.

DEGREE REQUIREMENTS

II

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF ARTS IN THE LIBERAL ARTS (PRESECONDARY) CURRICULA AND FOR THE JUNIOR CERTIFICATE

The liberal arts (presecondary) curricula lead to the bachelor of arts degree with majors in art, chemistry, commerce, economics, English, geography, history, mathematics, music, physical science, physics, Romanic languages and zoology and qualify for graduate work in these fields in recognized American colleges and universities. Completion of the requirements of these curricula also enables the graduate to satisfy undergraduate requirements for the general secondary credential which with graduate work, will enable the holder to teach in a senior high school or junior college.

Total Units, Length of Time, and Residence

The A.B. degree will be granted on the completion of 124 units¹ of college work, representing a four-year course, and the junior certificate on the completion of 62 units. Certain requirements for the degree may be met by courses taken in the high school. No high school course, however, can be used to reduce the amount of college work required for the junior certificate or for the degree. Not less than 54 units must be earned in the junior and senior years; at least 30 units of work at this college; twenty-four of these residence units must be taken with the rank of senior, at least twelve of which must be taken in the fall or spring semester of the final year before graduation.

SUBJECT MATTER REQUIREMENTS IN THE LOWER DIVISION

Physical Education	2 unit
Hygiene 1 or 2	2 unit
English	6 unit
Foreign Languages	15 unit
Mathematics A and B or high school algebra and geometry	0 unit
Social Science	14 unit
Natural Science	14 unit
Year-course in foreign language or mathematics, or philosophy (in addition to the foregoing minimum requirements in foreign language and mathematics)	6 unit
Lower division subjects for the minors, unless included in one of the above requirements, see page 50	12 unit
Lower division subjects required for the major. See page 50.	
Electives to make total of 62 units.	

Explanation of lower division requirements

English: This requirement may be satisfied either in the freshman year or in the sophomore year. To be chosen from the following year courses: English 1B-2 or 3, 4A-4B, 52A-52B, 56A-56B.

¹ For definition of units see page 24.

Foreign Languages: At least 15 units in not more than two languages are required in the lower division, except that only 10 units in a modern language are required in the commerce major. Each year of high school work in a foreign language will be counted in satisfaction of 3 units of this requirement. A minimum of two high school year-courses is acceptable in an language except Latin, in which a year-course is permissible.

Social Science: Fourteen units are required as follows:

- (a) One of the following alternatives must be chosen: (1) Social Science 1, or (2) the combination of Economics 1A-1B, Political Science 1A-1B and Sociology 50.
- (b) One of the following year-courses must be chosen: Anthropology 50A-50B, Economics 1A-1B, History 4A-4B; 8A-8B, Political Science 1A-1B.
- (c) Additional courses, if needed to meet the total requirement, must be chosen from the following list: Anthropology 50A-50B, 54, 55; Economics 1A-1B, 11, 18A-18B; Geography 2; History 4A-4B, 8A-8B; Political Science 1A-1B; Sociology 50.

Natural Science: Fourteen units are required as follows:

- (a) A maximum of 6 units in the following high school laboratory courses may be chosen to meet this requirement: Physics, Chemistry, Botany, Biology, Physiology, Zoology. Only those high school courses that are offered exclusively for students in the third or fourth year may be used. Each year of high school work in science will be counted in satisfaction of three units of the requirement.
- (b) One of the following alternatives in the biological science field must be chosen: (1) Biological Science 1 or Biological Science 10A-10B, or (2) any combination of Zoology 1A-1B or high school Zoology with Botany 2A-2B or high school Botany.
- (c) One of the following alternatives in the physical science field must be chosen: (1) Physical Science 1, or (2) high school or college physics and chemistry, or (3) three courses in high school or college physical science including either physics or chemistry.
- (d) One of the following laboratory courses is required: High school physics, high school chemistry, Biological Science 10A-10B, Botany 2A, Chemistry 1A, Geology 1A and 1B, Physics 1A-1B, Physics 3A-3B, Zoology 1A.
- (e) Additional courses, if needed to meet the total requirement, must be chosen from the following list: Astronomy 1, 11; Biological Science 10A-10B; Botany 2A, 2B, 4, 5; Chemistry 1A-1B, 6A-6B, 7-8; either Geography 1 or Geography 3; Geology 1A, 1B; Physics 1A-1B, 1C-1D, 2A-2B, 3A-3B; Zoology 1A, 1B.

Mathematics: High school elementary algebra or Mathematics A and high school plane geometry or Mathematics B.

Additional Year Course: In addition to the foregoing minimum requirements in foreign language and mathematics, 6 units must be chosen from one of the following groups:

Modern foreign language: Any two consecutive college courses.

Latin: Two years of high school courses in Latin.

Mathematics: 3A-3B; 7A-7B; C and 3A; G and 7A. Students with the Commerce major may take Mathematics C and G, or equivalents, and 2.

Philosophy: 5A-5B.

Minors: A minimum of 12 units in each of two minor subjects is required. At least 6 units in each minor shall be in upper division courses completed in the junior and senior years. The entire 12-unit requirement for a minor may be met with upper division courses provided these courses have no lower division prerequisites. The prerequisites for upper division courses in various departments may be found in the course descriptions on page 61 to 117. Minors are available in the following subjects: art, botany, chemistry, economics, education, English, foreign language, geography, geology, history, mathematics, music, physics, political science, psychology, zoology.

Major: The specific requirements in each major field are listed in the paragraphs immediately following.

Electives: Among both elective and required subjects, a total of not more than 12 units of the applied and vocational courses listed below will be counted toward the junior certificate or the A.B. degree, in both the lower and upper division combined:

Agriculture 20; Art 61A, 61B; Economics 24A-24B, 25A-25B; Journalism 53A-53B, 153A-153B; all courses in Applied Music, and all musical organizations; Physical Education 2A-B to 14A-B, 37, 53, 54, 55, 56, 57, 62A, 62B, 151, 153, 155, 156A, 156B, 157A, 157B, 160, 163, 165, 166, 168, 169, 170, 171, 172, 173, 174, 175, 177, 178A, 178B, 179, 180; Secretarial Training, all courses.

Liberal Arts (Presecondary) Majors—Required Lower Division Subjects

The student is advised to choose his major as early in his college course as practicable so that he may be able to plan his work according to the major requirements. Failure to meet the lower division requirements of the major department before the junior year may make it impossible to satisfy the upper division requirements within the normal period of two years.

Art

Eighteen units carefully chosen from lower division art courses to meet the stated prerequisites for upper division work. These shall include Art A-B, 5, 6A-6B, 50 or the accepted equivalents, and six elective units in art.

Chemistry

Chemistry 1A-1B with an average grade of C or better, Chemistry 6A-6B or 7-8, Physics 2A-2B and 3A-3B or their equivalent, Mathematics 7A-7B or the equivalent, and a reading knowledge of German. Students planning to do graduate work in chemistry or to transfer to another college, and there work for a degree with a major in chemistry are advised to take Physics 1A-1B-1C-1D and Mathematics 3A-3B-4A-4I in place of the courses listed above.

Commerce

Economics 1A-1B, 11, 14A-14B (6 units), 18A-18B; English 1B-2 or 3; Geography 1-2; Mathematics C and G, or equivalents, and 2; History 4A-4B or 8A-8B or Political Science 1A-1B.

Economics

Economics 1A-1B and at least one of the following: Political Science 1A-1B; History 4A-4B; History 8A-8B; Psychology 1A and 1B or 4A or 4B; Geography 1 and 2; Anthropology 50A-50B. Recommended: Sociology 50; Economics 14A-14B, 18A-18B.

English

English 1B-2 or 3 and six units from 52A, 52B, 56A, 56B. Recommended: A reading knowledge of German or French.

Foreign Languages

Group major: French A-B, C-D, and Spanish A-B, C-D.

The group major requirements are based on the assumption that the student will have taken courses in the high school, equivalent to the college course in elementary French or Spanish.

Geography

Geography 1, 2, 3 and Geology 1A-1B. Recommended: A reading knowledge of French or German.

History

History 4A-4B, or 8A-8B, and either Political Science 1A-1B, Economics 1A-1B, or Geography 1 and 2. No student shall enroll in more than one lower division history course during a semester. Students who wish to major in history and who have had less than two years of European history in high school must take History 4A-4B.

Mathematics

Mathematics 3A-3B, 4A-4B. With permission of the department, 7A-7B may replace 3A-3B. Recommended: Physics, surveying, descriptive geometry, astronomy and a reading knowledge of French and German.

Music

Music 1A-1B, 2A-2B, 4A-4B, and 2 units of electives in music. The electives in music in both lower and upper division must include at least 3 units in Applied Music (study of voice, or an instrument), of which at least 3 units must be in piano. Upper division credit will not be given for beginning work in Applied Music. (For restrictions on applied courses, see page 50.)

Physical Science

Fulfillment of the departmental requirements for upper division work in at least two of the following sciences: Chemistry, geology, physics. Recommended: A reading knowledge of French and German.

Physics

Physics 1A-1B-1C-1D, Mathematics 3A-3B, 4A-4B, and Chemistry 1A-1B, or their equivalents. Recommended: A reading knowledge of French and German.

Zoology

Zoology 1A, 1B, and high school chemistry or Chemistry 1A. Recommended: Chemistry 1B, French, German, Botany 2A, 2B, 4, and 5.

SUBJECT MATTER REQUIREMENTS IN THE UPPER DIVISION

Psychology 1A (unless elected in lower division)-----	3 units
Political Science 101-----	2 units
Education -----	6 units
First minor (minimum in upper division courses)-----	6 units
Second minor (minimum in upper division courses)-----	6 units
Major -----	

Electives to make a minimum total of 40 units in upper division courses and a grand total of 124 units for the degree.

Explanation of Upper Division Requirements

Required Number of Units in Upper Division Courses: At least 40 of the units completed during the junior and senior years, among required and elective subjects, shall be in upper division courses (see definition under heading Courses of Instruction); junior standing requires 60 units of credit. Introductory courses open to first-semester freshmen when taken in the junior or senior year may involve either additional work or reduction in the number of units of credit.

Political Science 101: Political Science 113 or 152 or History 171A-171B or 173A-173B will be accepted as substitutes for this requirement.

Education: A minimum of 6 units in education is required and a maximum of 18 units will be counted toward the degree. The courses in education for the minimum requirement must be chosen from the following list:

Ed. 121, Principles of Secondary Education; Ed. 106, Philosophy of Education; Ed. 107, History of Education; Ed. 137, Comparative Education; Ed. 130, Educational Psychology; Ed. 140, Elementary Educational Statistics; Psychology 102, Genetic Psychology.

Minors: See explanation regarding minor subjects on page 50.

Major: The specific requirements in each major field are listed in the paragraphs immediately following.

Electives: See restrictions concerning the choice of applied and vocational courses, as explained on page 50.

Major Requirements in the Various Fields

Art

Not less than twenty-four units of upper division art. These shall include Art 112A, 115A-115B, 150, 152A, 195, and ten upper division elective units in art.

It is recommended that students in meeting degree requirements and in choosing free electives, select from the following courses; English 4A-4B, 106A-106B, 107A-107B, 117; French A-B; History 4A-4B, 111A-111B.

Chemistry

A minimum of twenty upper division units in chemistry including chemistry 101-102. The choice of a related minor and the organization of the course of a major student must follow a definite plan approved by the department.

Commerce

Economics, 121, 140, 199 and 16 units additional chosen in one of the following groups:

A. Accounting: Econ. 160A-160B, 161, 163, and 4 units in electives in economics.

B. Banking and Finance: Econ. 133, 134, 135, and 7 units in electives in economics.

C. Marketing and Merchandising: Econ. 123, 125, 171, and 7 units in electives in economics.

Geog. 141 may be used in the electives under A, B, C.

Economics

Required: Economics 100, 140 and 199, with 7 units selected from the following: Economics 101, 121, 123, 127, 131, 133, 134, 135, and 171. Electives: Nine upper division units in economics. Economic geography may be substituted for three elective units in economics.

English

Twenty-four units in upper division English to be selected and arranged under supervision of the department. Not over four units may be in composition. A reading knowledge of German or French.

Foreign Languages

Twenty-four units of upper division work in French and/or Spanish; or eighteen units in French and/or Spanish, and six units in related subjects, arranged in consultation with the chairman of the department. At least a C average in all courses. Recommended: Geography 118.

Geography

Twenty-four units of upper division work in geography or 18 units in geography and six units in related subjects arranged in consultation with the chairman of the department.

History

Twenty-four units in upper division courses in history to be arranged in consultation with the chairman of the department. The student must, in his senior year, enroll in History 199.

Mathematics

Twenty-four units of upper division work in mathematics, or eighteen units in mathematics and six units in closely related subjects, arranged

in consultation with the chairman of the department. Mathematics 111, 112, and 119 should be included in every major. Related courses offered by other departments include statistical methods (Economics 140), mathematics in the junior high school (Education 112) and certain upper division courses in chemistry and physics.

Music

Music 103A-103B, 105A-105B, 107A-107B, 108, and 12 units of upper division elective courses in music. (See statement concerning Applied Music under lower division requirements.)

Physical Science

Twenty-four units of upper division work in two or more of the physical sciences, chemistry, geology, and physics, with a minimum of six units in each of two of these sciences.

Physics

Twenty-four units of upper division work in physics including Physics 105A-105B and 107A-107B. Six of the twenty-four units may be elected in related subjects on consultation with the chairman of the department.

Zoology

(1) At least a C average in upper division major courses. (2) Twenty-four units of upper division courses in zoology or 18 in the major subject and six in related courses in botany, organic chemistry, physics, physiology and bacteriology.

PREPROFESSIONAL CURRICULA

As shown below, the liberal arts curricula can be adapted to correspond to the typical courses of study preliminary to the professional courses of training for law, medicine, dentistry, nursing, optometry, pharmacy, social service, teaching, journalism, agriculture, and engineering. (For a complete statement of the requirements for the junior certificate and the degree in these curricula, see pages 48-54.

Prelegal Curricula

(Two-Year, Three-Year and Four-Year Curricula)

- a) The entrance requirements of law colleges range from two years to three and four years of prelegal work. The lower division requirements of the liberal arts (presecondary) curricula should be met in full whether the curriculum extends over a period of two, three or four years.
- b) The following lower division electives meet the recommendations of standard American law colleges for a broad and liberal education in those fields of human knowledge commonly involved in human affairs and those which have cultural and disciplinary values. Liberal arts subjects similar to subjects offered in law colleges should ordinarily be omitted from the prelegal curricula. History 4A-4B, 6 units; Economics 1A-1B, 6 units; Economics 14A-14B, 6 units; Sociology 50, 3 units; Political Science 1A-1B, 6 units; Speech Arts 1B, 3 units; English 52A-52B, 6 units; Psychology 1A, 3 units; Psychology 4A, 2 units; Philosophy 5A-5B, 6 units.
- c) The three-year prelegal curriculum requires the completion of 93 units of work. Some of the introductory courses should be continued in the upper division if the student is to acquire mastery and confidence in any field. The following are listed as examples of upper division courses that meet the needs of general study in the three-year or the four-year curriculum. History 111A-111B, or 121A-121B, 6 units; History 151A-151B, 6 units; History 171A-171B, 6 units; Economics 121, 3 units; Economics 133, 3 units; Economics 151, or 100, 3 units; Economics 171, 3 units; Political Science 111, 3 units; Political Science 113, 3 units; Speech Arts 101B, or 1B, 3 units; Philosophy 120, 3 units.
- d) The four-year curriculum requires the completion of 124 units of work. A student who is pursuing a four-year prelegal curriculum must major in a specific field in his junior and senior years and must meet all upper division requirements for the A.B. degree in the liberal arts curricula.

Premedical Curricula

(Two-Year, Three-Year and Four-Year Curricula)

- a) The entrance requirements of medical colleges range from two years to three and four years of premedical work. The lower division requirements of the liberal arts (presecondary) curricula should be

met in full whether the curriculum extends over a period of two, three or four years.

- (b) The program of elective and required subjects in the lower division should include the following subjects: Zoology 1A-1B, 8 units; Chemistry 1A-1B, 10 units; English 1B-2 or 3, 6 units; French or German, 9 units (this requirement may be satisfied in the high school); Zoology 100, 4 units (this upper division subject should be taken in the sophomore year only when necessary to satisfy medical colleges requiring only two years of premedical work).
- (c) The three-year premedical curriculum requires the completion of 93 units of work. The program in the upper division of either the three-year or the four-year curriculum should include the following subjects: Physics 2A-2B, 6 units; Physics 3A-3B, 2 units (the physics courses may be taken in the lower division); Chemistry 106A-106B, 6 units; Chemistry 107-108, 7 units; Zoology 100, 4 units.
- (d) The four-year curriculum requires the completion of 124 units of work. A student who is pursuing a four-year premedical curriculum should major in chemistry or zoology in his junior and senior years and must meet all upper division requirements for the A.B. degree in the liberal arts curricula.

Predental Curricula

(One-Year Curriculum)

The following subjects should be taken to qualify for entrance to dental colleges requiring only one year of predental work. The one-year curriculum requires the completion of 31 units of work. English 1B-2 or 3, 6 units; Chemistry 1A-1B, 10 units; Zoology 1A-1B, 8 units; Social Science 1, 3 units; Physical Education 1A-1B or 36A-36B, 1 unit; Electives, 3 units.

(Two-Year Curriculum)

- (a) The lower division requirements of the liberal arts (presecondary) curricula should be met in full to satisfy dental colleges requiring two years of predental work.
- (b) The program of elective and required subjects in the lower division should include Chemistry 1A-1B, 10 units; Chemistry 7-8, 6 units; Zoology 1A-1B, 8 units; and English 1B-2 or 3, 6 units.

Prenursing Curriculum

(Two-Year Curriculum)

- (a) The lower division requirements of the liberal arts (presecondary) curricula should be met in full.
- (b) The program of elective and required subjects in the lower division should include Chemistry 1A-1B, 10 units; Economics 1A-1B, 6 units; Psychology 1A-1B, 6 units; Zoology 20 (Anatomy and Physiology), 3 units; Bacteriology 1 (General Bacteriology and Microbiology), 4 units (Summer Session). (It is planned to increase the unit-value of Zoology 20 as soon as possible to meet completely the California requirements for a junior certificate in prenursing.)

Preoptometry Curriculum

(Two-Year Curriculum)

- a) The lower division requirements of the liberal arts (presecondary) curricula should be met in full.
- b) The program of elective and required subjects in the lower division should include Chemistry 1A-1B, 10 units; English 1B-2 or 3, 6 units; Mathematics 7A, or equivalent, 4 units; Physics 2A-2B, 6 units; Physics 3A-3B, 2 units; Psychology 1A, 3 units; Zoology 20, 3 units.

Prepharmacy Curriculum

(Two-Year Curriculum)

- a) The lower division requirements of the liberal arts (presecondary) curricula should be met in full.
- b) The program of elective and required subjects in the lower division should include Chemistry 1A-1B, 10 units; Botany 2A-2B, 8 units; German A-B, 10 units; Mathematics D, 1 unit, or equivalent; Mathematics C, 2 units, or equivalent; Chemistry 6A-6B, 6 units; Chemistry 7-8, 6 units; Physics 2A-2B, 6 units; Physics 3A-3B, 2 units; English 1B-2 or 3, or Speech Arts 1A-1B, 6 units.

Curricula Preliminary to Social Service

(Two-Year and Four-Year Curricula)

- (a) The lower division requirements of the liberal arts (presecondary) curricula should be met in full whether the curriculum extends over a period of two years or four years.
- (b) The program of elective and required subjects in the lower division should include Social Science 1, 3 units; Sociology 50, 3 units; Economics 1A-1B, 6 units; Speech Arts 1A, 3 units; Speech Arts 1B, 3 units; Biological Science 10A-10B, or Zoology 1A, 6 or 4 units; Psychology 1A, 3 units; Psychology 4A, 2 units; Anthropology 54, 3 units; Mathematics D, or equivalent, 1 unit; Mathematics C, or equivalent, 2 units.
- (c) The four-year curriculum requires the completion of 124 units of work. A student who is pursuing a four-year curriculum preliminary to social service must major in a specific field in his junior and senior years and must meet all upper division requirements for the A.B. degree in the liberal arts curricula.
- (d) The program of elective and required subjects in the upper division should include as many of the following subjects as possible: Economics 134, 3 units; Economics 151, 3 units; Economics 140, or Education 140, 3 units; Education 106, 3 units; Education 107, 3 units; Education 130, 3 units; History 163, 3 units; History 171A-171B, or 173A-173B, 6 units; Physical Education 101, or 102, 1 unit; Physical Education 151, 2 units; Physical Education 171, or 170, 2 units; Psychology 102, 3 units; Psychology 118, 2 units; Psychology 145, 3 units; Political Science 152, 3 units.

Curricula Preliminary to Journalism

A broad, cultural education, and specific information and understanding in fields with which the journalist is largely concerned, are essential to an effective training for journalism.

(Two-Year and Four-Year Curricula)

- (a) The two-year and four-year curricula demand the completion of the lower division requirements of the liberal arts (presecondary) curricula in full.
- (b) The program of elective and required subjects in the lower division should include the following subjects: History 4A-4B, or 8A-8B, 6 units; Economics 1A-1B, 6 units; Political Science 1A-1B, 6 units; Psychology 1A, 3 units; Psychology 4A, 2 units; English 1B-2 or 3, 6 units; French or German, 9 units (this requirement may be satisfied in the high school); Journalism 51A-51B, 6 units; Journalism 53A-53B, 2-6 units.
- (c) A student who desires to build a broad foundation for graduate work in journalism is required to complete 124 units of work. He must major in a specific field preferably English, history or economics in his junior and senior years and must meet all upper division requirements for the A.B. degree in the liberal arts curricula.
- (d) The program of elective and required subjects in the upper division should include as many of the following subjects as possible: English 106A-106B, or 107A-107B, 4 units; English 130A-130B, 6 units; Economics 100, 3 units; History 145A-145B, or 146A-146B, 6 units; History 171A-171B, or 173A-173B, 6 units; Political Science 111, 3 units; Political Science 113, 3 units; Journalism 100, 3 units; Journalism 153A-153B, 2-6 units.

Preagricultural Curricula

- (a) The two-year curricula require the completion of 66 units of work for junior standing in recognized colleges of agriculture.
- (b) Requirements of the curriculum in plant and animal sciences: Chemistry 1A-1B, 10 units; Chemistry 6A-6B, or 7-8, 6 units; Botany 2A-2B, 8 units; Physics 2A-2B, 6 units; Zoology 1A-1B, 8 units; Geology 1A, 3 units; English 1B-2 or 3, or Speech Arts 1A-1B, 6 units; Economics 1A-1B, 6 units; Botany 7, 2 units; Social Science 1, 3 units; Hygiene 1 or 2, 2 units; Physical Education, 2 units; Mathematics A, B, C, D, 3 units, or equivalents; electives, to make a total of 66 units of work. The summer course in Bacteriology 1 (General Bacteriology and Microbiology), 4 units, is recommended.
- (c) Requirements of the curriculum in forestry: Chemistry 1A-1B, 10 units; Botany 2A-2B, 8 units; Botany 7, 2 units; English 1B-2 or 3, or Speech Arts 1A-1B, 6 units; Mathematics 7A-7B, 8 units; Surveying 1A-1B, 6 units; Physics 2A-2B, 6 units; Geology 1A, or Geography 1, 3 units; Economics 1A-1B, 6 units; Social Science 1, 3 units; Hygiene 1 or 2, 2 units; Physical Education, 2 units; electives, to make a total of 66 units of work.

Preengineering Curricula

- a) The following list of subjects meets the requirements for the first year of a four-year curriculum in civil engineering, mechanical engineering, electrical engineering, or mining engineering: Mathematics 3A-3B, 6 units; Chemistry 1A-1B, 10 units; Physics 1A-1B, 6 units; English 1B, 3 units; Physical Education, 1 unit; elective, 3 units.
- b) The following list of subjects partially meets the requirements for the second year of a four-year curriculum in civil engineering, mechanical engineering, and electrical engineering; Mathematics 4A-4B, 6 units; Physics 1C-1D, 6 units; Surveying 1A, 3 units; Industrial Arts 21, 3 units; Industrial Arts 23, 2 units; Geology 1A, 3 units; Physical Education, 1 unit.
- c) Additional requirements in civil engineering: Industrial Arts 25, 3 units; Industrial Arts 28, 3 units; Surveying 1B, 3 units; Surveying 3, 1 unit.
- d) Additional requirements in mechanical and electrical engineering: Industrial Arts 22, 3 units; Mathematics 124 or 119, 3 units.

SPECIAL JUNIOR COLLEGE CURRICULA

Freshmen wishing to take so-called "terminal," or "semi-professional," or "junior technical" courses, of one or two years in length should secure at the office of the registrar, a special bulletin (available after August 1) exhibiting these courses in detailed outline, with instructions as to registration.

COURSES OF INSTRUCTION

Figures in parentheses indicate the unit value of the course.

Courses numbered from 1 to 99 are lower division (freshman or sophomore) courses; those numbered 100 and above are upper division (junior or senior) courses.

Freshmen are not admitted into upper division courses. First semester sophomores who have an average grade of not less than 2.0 grade points and second semester sophomores who have an average grade of not less than 1.5 grade points may enroll in an upper division course provided they were registered in at least 12 units in the preceding semester. It is understood that ordinarily the instructor will be consulted by sophomores wishing to take upper division courses. In such cases an upper division course will count as lower division credit.

One "unit" represents an hour recitation or lecture, together with the required preparation, or three hours laboratory work each week for a semester of 18 weeks.

The semester for offering courses is designated as follows: (1) Fall; (2) Spring; (3) Fall and Spring; (4) Year course, beginning either Fall or Spring (5) Year course. Courses designated as "Year course" begin in the Fall, but those given in the list below may be taken in the reverse order (i.e., the second semester of the course may be taken before the first semester) or the second semester may be taken alone. In the case of other year courses, students who have completed the equivalent of the first semester's work may seek permission from the instructor to take the second half of the course. Single semester courses having the letter B as a part of the number (as for example, Art 61B) are not supposed to follow another course of the same number unless so indicated in the prerequisites to the course.

YEAR COURSES OPEN TO REGISTRATION IN THE MIDDLE OF THE YEAR

Anthropology 50A-50B	Spanish 110A-110B
Anthropology 51A-51B	History 4A-4B
Economics 18A-18B	History 8A-8B
Economics 24A-24B	History 111A-111B
Economics 160A-160B	History 121A-121B
English 4A-4B	History 145A-145B
English 52A-52B	History 146A-146B
English 56A-56B	History 151A-151B
English 106A-106B	History 156A-156B
English 107A-107B	History 171A-171B
French 101A-101B	History 173A-173B
French 105A-105B	Music 2A-2B
French 107A-107B	Music 103A-103B
French 110A-110B	Music 110A-110B
French 111A-111B	Political Science 1A-1B
Spanish 101A-101B	Speech Arts 55A-55B
Spanish 102A-102B	Speech Arts 55C-55D
Spanish 104A-104B	Speech Arts 155A-155B
Spanish 105A-105B	Speech Arts 156A-156B

Although the College fully expects to carry out the arrangements planned in the list of courses, it reserves the right to make changes. Classes in the courses listed in which the enrollment does not come up to the minimum number set by the State Department of Education may not be offered or may be postponed for a semester or a year.

AGRICULTURE

0. Nature Study.

SKILLING

A course to show the student what material, selected from the various sciences, may be woven into a nature study course suitable for children, with special reference to school and home gardening and agriculture. The subject matter covered is partly drawn from the physical sciences, astronomy, physics, etc. (for the upper grades), and partly from life studies of the plant and animal world (for lower grades). May be credited as natural science only for students majoring in Education.

Fall and Spring (3).

ANTHROPOLOGY

LOWER DIVISION COURSES

0A-50B. Man's Evolutionary History.

ROGERS

Origin and antiquity of man. Theories of human descent. Classification of races. Origin and early development of civilization.

Year course (3-3).

1A-51B. The American Indian.

ROGERS

Pre-Columbian cultures of the American Indian. The origin and migration of New World peoples. Industries, arts, crafts, social organization, religion and other phases of American Indian civilization. The first semester presents a general introduction to New World culture with special attention to the tribes north of Mexico, while the second semester is concerned primarily with the civilizations of Mexico, Central and South America.

Year course (3-3).

2. Primitive Cultures (Ethnology).

ROGERS

History and cultural development of primitive races of mankind. Consideration given to industries, arts, social organization, and religion of living primitive peoples.

Fall (3). (Offered in 1935-1936 and alternate years.)

3. Primitive Religious Culture.

ROGERS

Beliefs and ritual of primitive man. Magic and religion. Forms of animism and polytheism. Primitive mentality and the supernatural.

Spring (3). (Offered in 1935-1936 and alternate years.)

4. Social Anthropology.

ROGERS

An anthropological study of social institutions in primitive and civilized societies. The evolution of family organization, religion, property right, and government traced in elementary and advanced civilization.

Ritualism and education considered as processes of culture conservation and social control.

Fall and Spring (3).

55. Culture History.

ROGERS

The prehistoric and historic development of culture types entering into world civilizations. Egyptian, Semitic, Indo-European, African, Oriental, American Indian and Palae-Arctic civilizations analyzed on the basis of economics, polity, religion, science and art. Methods of culture spread and elaboration examined and applied to specific traits. Spengler's theory of culture history and similar doctrines reviewed.

Fall and Spring (3).

ART

Lower division preparation for the presecondary major in art and for the junior certificate: Eighteen units carefully chosen from lower division art courses to meet the stated prerequisites for upper division work. These shall include Art A-B, 5, 6A-6B, 50 or the accepted equivalents, and six elective units in art.

Presecondary major (upper division): Not less than twenty-four units of upper division art. These shall include Art 112A, 115A-115B, 150, 152A, 195, and ten upper division elective units in art.

It is recommended that the students in meeting degree requirements and in choosing free electives, select from the following courses: English 4A-4B, 106A-106B, 107A-107B, 117; French A-B; History 4A-4B; 111A-111B.

LOWER DIVISION COURSES

Art Appreciation and History

5. Fundamentals.

JACKSON

An illustrated lecture course intended to increase appreciation and give a basic understanding of the elements and principles of art as expressed in the architecture, painting, sculpture, and crafts of the past and present.

Fall and Spring (2).

8. Appreciation of Costume and Home Furnishing.

BORSUM

Design and materials of modern dress; relation to the figure and personality; suitability and expressiveness. Principles underlying the use of materials and furnishings in the home; harmony of color, proportion, texture, and arrangement. Lectures, discussion, and demonstrations.

Fall (2).

50. Appreciation and History.

JACKSON

A survey of the development of painting, sculpture, architecture, and handicrafts from the dawn of art to the Renaissance, by means of illustrated lectures and discussion. (Not open to freshmen, except by special permission.)

Fall (3).

Design

- A. Structure.** BORSUM
Fundamentals of design and composition and theory of color. Basic course used as a prerequisite for all advanced art work.
Fall and Spring (2).
- B. Structure (continued).** BORSUM
Original work in creative design with special stress on modern tendencies. Prerequisite: Art 6A.
Fall and Spring (2).
- 1A. Industrial Design.** HAMANN
Original design in its relationship to various fields—ceramics, furniture, textiles, jewelry, and books. A survey and study of materials and processes in machine and hand production. Prerequisite: Art 6A-6B.
Fall (2).
- 1B. Advanced Industrial Design.** HAMANN
Advanced problems with emphasis upon the related factors of material and production. Application of problems designed. Prerequisites: Art A-6B, 11A.
Spring (2). (Offered in odd-numbered years.)
- 4A. Lettering.** BORSUM
Fundamental art principles applied to lettering. Practice for quick, accurate lettering; original problems using letters as design. Prerequisite: Art 6A.
Fall (2).
- 4B. Posters and Commercial Art.** BORSUM
The application of lettering to posters, newspaper and magazine advertising, and other forms of commercial art. The study of composition combined with lettering and special study of modern tendencies in publicity. Prerequisites: Art 6A, 14A.
Spring (3).
- 2A. Stage Design.** BORSUM
Theory of line, color, and lighting in relation to the stage. Original sets and costumes developed on a miniature stage. Study of the development of the modern art of the theater. Upper division credit will be given in this course to students of junior standing upon the completion of extra theme work and additional original problems. Prerequisite: Art 6A.
Fall (3).
- 4. Costume Design.** PATTERSON
Original problems and designing modern costumes. A study of line, color, texture, type, and suitability to the wearer and to the occasion; foreign and historic influence on dress. Prerequisite: Art 6A.
Fall (3).

Drawing and Painting

A-B. Freehand Drawing.

HAMANN

Semester I: Problems involving perspective to develop ability to draw still life, furniture, exteriors, interiors, and the like.

Semester II: Outdoor sketching of landscape and figure, and studio work from still life and costume pose. Emphasis on composition and technique in the handling of various mediums, pencil, pen and ink, charcoal, pastel, and water color.

Year course (2-2).

15A-15B. Life Drawing.

JACKSON

Drawing from the nude model. Does not duplicate the former course in painting, numbered Art 15A-15B.

Year course, beginning either Fall or Spring (2-2).

16A-16B. Painting.

JACKSON

Semester I: Composition of still life and flower forms in water color.

Semester II: Landscape and more advanced composition in water color. Prerequisite: Art A-B. No credit for students having completed Art 15A-15B, Painting.

Year course, beginning either Fall or Spring (2-2).

Crafts

61A. Elementary Crafts.

HAMANN

Problems in elementary craft work, bookbinding, pottery, weaving, and puppetry (including the dramatization and production of a puppet play). Prerequisite: Art 6A, when possible.

Fall and Spring (2).

61B. Elementary Crafts.

HAMANN

Problems involving the application of design principles to various fields—pottery, textiles, weaving, metal work, wood-carving, and bookbinding. Prerequisite: Art 6A.

Fall and Spring (2).

UPPER DIVISION COURSES

Art Appreciation and History

150. Appreciation and History.

JACKSON

The period from the Renaissance through the modern school, treated in the same manner as in Art 50.

Spring (3).

Design

106A-106B. Advanced Design.

BORSUM

Advanced problems in design, color and technique. Planned for students interested in commercial design, illustration and industrial design. Prerequisites: Art A, 5, 6A, 6B.

Year course (2-2).

12A-112B. Composition.

JACKSON

Imaginative composition of natural forms in black and white and color. Prerequisites: Art A-B, 6A-6B, and if possible 15A-15B or 106A. Year course (3-3).

12C. Illustration.

JACKSON

Composition fulfilling the requirements of book illustration from poetry, imaginative tales, and legends, in black and white and color. Prerequisite: Art 112A.

Spring (3). (Offered in odd-numbered years.)

52A. Stage Design.

See Art 52A.

52B. Stage Costume.

PATTERSON

Costume studied in relation to drama. Original designs for mood and character. Practical problems in designing and decorating costumes and accessories for college productions. A brief history of costume from the Egyptian to the modern time. Prerequisites: Art 6A, 52A or 152A.

Spring (3).

195. Home Decoration.

BORSUM

House planning and landscaping. Interior decoration. Study of period styles and modern decoration. Illustrated lectures and original problems. Prerequisites: Art A, 6A.

Spring (3).

Drawing and Painting

115A-115B. Life Drawing and Painting.

JACKSON

Drawing and painting from nude and costume models.

Year course, beginning either Fall or Spring (2-2).

115C-115D. Advanced Life.

JACKSON

Painting from nude and costume models and advanced composition in oil. Portraiture. Prerequisite: Art 115A-115B.

Year course, beginning either Fall or Spring (2-2).

116A-116B. Advanced Painting.

JACKSON

Painting in water color and oils from still life and landscape, stressing composition and technique. Prerequisite: Art 16A-16B.

Year course, beginning either Fall or Spring (2-2).

ASTRONOMY

Lower division preparation in astronomy for advanced work and for the junior certificate: Astronomy 1, Plane Trigonometry, Mathematics 3A-3B, 4A-4B, Physics 2A-2B and 3A-3B, or 1A-1B and 1C-1D; a reading knowledge of French or German.

1. Descriptive Astronomy.

SKILLING

A cultural course planned to give as comprehensive a view as possible of the solar system and the stars. Only calculations of an elementary

nature. Especial attention to the methods and instruments by means of which astronomical knowledge has been gained. A six-inch Alvin Clarke telescope used for observation. Demonstrations given with a large spectrometer; also a good selection of lantern slides used to illustrate various topics. Prerequisites: Elementary algebra and plane geometry.

Fall and Spring (3).

3. Surveyor's Course in Elementary Practical Astronomy.

The principles of spherical trigonometry and astronomy adapted to the needs of engineering students. Computing. Prerequisites: Surveying 1A; Surveying 1B to be taken concurrently.

Spring (1).

5. Historic Development of Astronomy.

SKILLING

The leading facts now known in astronomy in the light of circumstances attending their discovery. Prerequisite: Astronomy 1.

Spring (3).

11. Modern Astronomy.

SKILLING

Stars and nebulae. Modern methods and instruments used in the observatory. Theory of matter as it applies to such studies. Prerequisites: Astronomy 1 and a knowledge of physics.

Fall (3).

BIOLOGICAL SCIENCES

(General Biological Science, Botany, Zoology)

General students who wish to take only one or two courses in this department should register for Biological Science 1, 10A-10B, Zoology 113C, 114A or 114B, Botany 4 or 5 (see below for prerequisites for each course).

Lower division preparation in botany for advanced work and for the junior certificate: Botany 2A, 2B, 4, 5, and Chemistry 1A.

Lower division preparation for the presecondary major in zoology and for the junior certificate: Zoology 1A, 1B, and high school chemistry or Chemistry 1A. Recommended: Chemistry 1B, French, German, Botany 2A, 2B, 4 and 5.

Presecondary major in zoology: (1) At least a C average in upper division major courses. (2) Twenty-four units of upper division courses in zoology or eighteen in the major subject and six in related courses in botany, organic chemistry, physics, physiology, and bacteriology.

Students preparing to teach science in the junior high school should try to include in their courses work in zoology, botany, physics, chemistry (at least high school chemistry), and Education 120. The following are also desirable: geography, geology, anthropology, astronomy, and upper division biological sciences. See page 29.

Fees: A fee is required in all laboratory courses in this department. The fee covers the cost of materials used. For breakage and extra material in addition to the estimated need an extra charge must be made.

LOWER DIVISION COURSES

. Man and His Biological World.

M. E. JOHNSON

A general biology course with lectures, discussion, and demonstrations three hours a week. For students who are not required to take Biological Science 10A-10B or who prefer a shorter course with no laboratory work. Not open to students who have taken 10A-10B or any combination of Zoology 1A-1B or high school zoology with Botany 2A-2B or high school botany. Students who have credit for this course and later elect 10A-10B receive 4 units of credit for 10A-10B instead of 6.

Spring (3).

10A-10B. Science of Life.

M. E. JOHNSON

The fundamentals of plant and animal biology, with elementary work in human physiology and heredity. Laboratory work supplements the lectures and includes a study of living and preserved material. Aim of the course to acquaint the student with the basic facts of biology. Designed not only to give the general student an acquaintance with living things and their relationships, but also to furnish the prospective teacher with an adequate background for nature study teaching. Two lectures and one three-hour laboratory period per week. Designed for those who do not expect to specialize in zoology or botany, but not open for credit to students who have taken Zoology 1A, or Botany 2A. Students who have taken 10A-10B may elect Zoology 1B or Botany 2A, 2B or credit.

Year course (3-3).

BOTANY

LOWER DIVISION COURSES

A. General.

HARVEY

Fundamentals of structure and general behavior of seed plants. Two lectures or recitations and two three-hour laboratory periods per week. Fall (4).

B. General.

HARVEY

A continuation of 2A treating morphology and relationship of the lower plants and including an introduction to classification of seed plants. Lectures and laboratory as in 2A.

Spring (4).

. California Plants.

HARVEY

Classification and ecology of representative orders of flowering plants of the San Diego region, including practice in the use of keys. One lecture and three hours laboratory per week.

Spring (2). (Offered in even-numbered years.)

. Trees and Chaparral.

HARVEY

Practice in the determination of the important species of the San Diego region. One lecture and three hours laboratory per week, with several Saturday field trips.

Spring (2). (Offered in odd-numbered years.)

NOTE: A course in general bacteriology is usually offered in the summer session.

UPPER DIVISION COURSES

102. Plant Geography.

HARVEY

Lectures and field work on the principles of geographical distribution of plants. Prerequisite: Botany 2A-2B, or 4, or equivalent.

Fall (2). (Offered in odd-numbered years.)

104. Taxonomy.

HARVEY

Identification, classification, and distribution of representative orders of flowering plants. Six hours per week of lectures, laboratory, and field work. Prerequisites: Botany 2A-2B, 4.

Spring (3). (Offered in even-numbered years.)

199. Special Study.

INSTRUCTORS OF THE DEPARTMENT
(M. E. JOHNSON in charge)

Reading or work other than is outlined in the above courses. Admission by consent of the instructor with whom the work is to be done and the head of the department. Credit and hours to be arranged in each case. Open to students who have completed at least ten units of lower division work in the department with a grade of A or B.

Fall and Spring (1 or 2).

ZOOLOGY

LOWER DIVISION COURSES

1A. General.

HARWOOD

An introduction to animal biology dealing with structure, functions, and evolution of animal life. Laboratory work supplementing the lectures and based on the study and observation of living and preserved material. Valuable to the general student as well as to the biology specialist, acquainting one with the fundamental facts and theories of biology as they pertain to animal life. Two lectures or recitations and two three-hour laboratory periods per week.

Fall (4).

1B. General.

HARWOOD

A continuation of 1A. The structure, relationships, and classification of the chordates. Two lectures and two three-hour laboratory periods per week. Prerequisite: Zoology 1A or Biological Science 10B.

Spring (4).

20. Anatomy and Physiology.

CROUCH

An elementary course in human anatomy and physiology. Prerequisite: High school biology, or Biol. Science 10A-10B. Lectures three hours per week.

Fall (3).

UPPER DIVISION COURSES

100. Embryology.

M. E. JOHNSON

The development of vertebrates as illustrated by the frog, chick, and pig. Six hours of laboratory and two hours of lecture per week. Prerequisite: Zoology 1B or Biol. Science 10B.

Spring and Fall (4). (Offered in odd-numbered years.)

106. Comparative Anatomy of the Vertebrates.

CROUCH

Dissection, study, and comparison of organ systems of typical vertebrates. Two hours per week of lecture and six hours of laboratory. Prerequisite: Zoology 1B or Biol. Science 10B.

Fall (4). (Offered in odd-numbered years.)

12. Marine Zoology.

M. E. JOHNSON

Designed to acquaint the student with the many interesting animals found along the beaches in the San Diego region. Identification, distribution, associations, structure, and to some extent, behavior and life histories of the organisms. Frequent collecting trips to the beach and study of the living animals in the laboratory. Prerequisite: A laboratory course in elementary biology or zoology.

Fall (3). (Offered in odd-numbered years.)

13A. Taxonomy and Natural History of the Vertebrates.

HARWOOD

Frequent field trips and the identification of preserved material. One hour of lecture and six hours of laboratory per week. Prerequisite: Zoology 1B or Biol. Science 10B.

Spring (3). (Offered in even-numbered years.)

13B. Ornithology.

CROUCH

The study and identification of birds, especially those of the Pacific coast and the San Diego region. Six hours per week of lectures, laboratory, or field excursions. Prerequisite: Zoology 1B, or Biol. Science 10B.

Spring (3). (Offered in odd-numbered years.)

13C. Field Study of Birds.

CROUCH

The study and identification of the birds of the San Diego region. Three hours of laboratory or field work per week.

Spring (1). (Offered in even-numbered years.)

14A. Genetics.

HARWOOD

General introductory course designed to acquaint the student with the fundamental principles of heredity and variation. Special attention given to the Mendelian interpretations of the facts of inheritance. Two lectures per week.

Fall (2).

14B. Evolution.

JOHNSON

The development of theories of evolution. Two lectures or discussion periods per week.

Fall (2). (Offered in even-numbered years.)

21. Entomology.

HARWOOD

The classification, life history, structure, and physiology of insects. Prerequisite: Zoology 1A or Biol. Science 10B. Two hours of lecture and six hours of laboratory per week.

Spring (4). (Offered in odd-numbered years.)

30. Readings in Biology.

HARWOOD

Readings from a suggested bibliography with informal class discussion of topics. Subjects discussed will include history of biology, biological

cal principles, ecology, economic zoology, zoogeography, breeding habits, animal behavior.

Spring (2). (Offered in even-numbered years.)

199. Special Study.

INSTRUCTORS OF THE DEPARTMENT
(M. E. JOHNSON in charge)

Reading or work other than is outlined in the above courses. Admission only by consent of the instructor with whom the work is to be done and the head of the department. Credit and hours to be arranged in each case. Open to students who have completed at least ten units of work in the department with a grade of A or B.

Fall and Spring (1 or 2).

CHEMISTRY

Lower division preparation for the presecondary major in chemistry and for the junior certificate: Chemistry 1A-1B with an average grade of C or better, Chemistry 6A-6B or 7-8, Physics 2A-2B and 3A-3B or their equivalent, Mathematics 7A-7B or the equivalent, and a reading knowledge of German. Students planning to do graduate work in chemistry or to transfer to another college, and there work for a degree with a major in chemistry, are advised to take Physics 1A-1B-1C-1D and Mathematics 3A-3B-4A-4B in place of the courses listed above.

Presecondary major (upper division): A minimum of twenty upper division units in chemistry including Chemistry 101-102. The choice of a related minor and the organization of the course of the major student must follow a definite plan approved by the department.

For requirements for presecondary major in physical science, see pages 51, 54.

LOWER DIVISION COURSES

1A-1B. General Chemistry.

MESSNER, ROBINSON

The general principles and laws of chemistry, and a description of the elements and their compounds. Two lectures, one quiz and two laboratory periods per week. The laboratory work in the second semester consists of work in qualitative analysis. Prerequisites: At least two years of high school mathematics. Recommended: High school chemistry and physics.

• Year course (5-5).

6A-6B. Introductory Quantitative Analysis.

MESSNER

Determinations by gravimetric, volumetric, and electro-analysis, particular attention being given to the cultivation of laboratory technique. One hour quiz and lecture, and two laboratory periods per week. Prerequisite: Chemistry 1A-1B.

Year course (3-3).

7-8. Organic Chemistry.

ROBINSON

A general consideration of the carbon compounds (both aliphatic and aromatic) and their derivatives; their synthesis, constitution and properties, and the principles involved. Two lectures and one laboratory

period per week first semester; one lecture and two laboratory periods per week second semester. Prerequisite: Chemistry 1A-1B.

Year course (3-3).

UPPER DIVISION COURSES

01-102. Elementary Physical Chemistry. MESSNER, ROBINSON

The laws and theories of elementary work from the viewpoint of physical chemistry. Laboratory work covering such topics as gas law, mol weights, laws of combination, ionization, equilibrium relationships, and electrochemistry. Two lectures, two laboratory periods per week. Prerequisites: Chemistry 1A-1B, 6A-6B, and Mathematics 7A-7B or equivalent.

Year course (4-4).

06A-106B. Quantitative Analysis. MESSNER

An upper division course covering the same field as Chemistry 6A-6B but including some more advanced work. One lecture and two laboratory periods per week. Prerequisite: Chemistry 1A-1B.

Year course (3-3).

07-108. Organic Chemistry. ROBINSON

An upper division course covering the same field as Chemistry 7-8 but including some more advanced work. Two lectures and one laboratory period per week first semester; two lectures and two laboratory periods per week second semester. Prerequisite: Chemistry 1A-1B.

Year course (3-4).

10. Industrial Chemistry. ROBINSON

An introductory lecture course designed to acquaint the student with types of apparatus and unit processes of importance in the industry. A few typical industrial processes discussed in detail. Prerequisites: Chemistry 1A-1B and credit or registration in Chemistry 6A-6B and 7-8.

Spring (3). (Offered in even-numbered years.)

112. Industrial Analysis. ROBINSON

A laboratory course including the analysis of fuels, petroleum products, water, and gas. Prerequisite: Chemistry 6A-6B.

Spring (2). (Offered in even-numbered years.)

114. Biochemistry. MESSNER

An introductory lecture course covering the carbohydrates, proteins, fats and the changes which they undergo in digestion and metabolism, as well as a consideration of the vitamins and other accessory food factors and their importance to the body. A brief discussion of the chemistry of plant life. Prerequisites: Credit or registration in Chemistry 101-102.

Spring (3). (Offered in odd-numbered years.)

118. Colloid Chemistry. MESSNER

A short lecture course covering types of colloidal systems, their preparation, properties and practical applications. Prerequisite: Chemistry 101-102.

Fall (2). (Offered in odd-numbered years.)

123-124. Organic Preparations.

ROBINSON

A laboratory course illustrating some of the more important synthetic methods of organic chemistry. Laboratory and conferences. Prerequisite: Chemistry 7-8. A reading knowledge of German recommended.

Year course, beginning either Fall or Spring (2 to 5-2 to 5).

125. History of Chemistry.

ROBINSON

Development of the science of chemistry from the time of the alchemists to the present. Conducted on the reading, report, and seminar basis. Prerequisite: Chemistry 101-102.

Fall (2). (Offered in even-numbered years.)

199. Special Topics.

INSTRUCTORS OF THE DEPARTMENT

Supervised individual work in specialized branches of chemistry such as colloid chemistry, biochemistry, applications of the phase rule, etc. Admission only by the consent of the instructor. Hours and credit to be arranged in each case. Open only to upper division students who have shown their ability to do A or B work in chemistry.

Fall and Spring (1-3).

ECONOMICS

Lower division preparation for the presecondary major in economics and for the junior certificate: Economics 1A-1B and at least one of the following: Political Science 1A-1B; History 4A-4B; History 8A-8B; Psychology 1A and 1B or 4A or 4B; Geography 1 and 2; Anthropology 50A-50B. Recommended: Sociology 50; Economics 14A-14B, 18A-18B.

Presecondary major (upper division) in economics, required: Economics 100, 140 and 199, with 7 units selected from the following: Economics 101, 121, 123, 127, 131, 133, 134, 135, and 171. Electives: Nine upper division units in economics. Economic geography may be substituted for three elective units in economics.

Commerce

Candidates for a teaching credential in commerce should refer to the statement "Admission to Upper Division Teacher Training" on page 28 and to curriculum for the A.B. degree with a special credential in commerce on page 39.

Lower division preparation for the presecondary major in commerce and for the junior certificate: Economics 1A-1B, 11, 14A-14B (6 units), 18A-18B; English 1B, 2 or 3; Geography 1-2; Mathematics C and G, or equivalents, and 2; History 4A-4B or 8A-8B or Political Science 1A-1B.

Presecondary major (upper division) in commerce, required: Economics 121, 140, 199 and 16 units additional chosen in one of the following groups:

A. Accounting: Economics 160A-160B, 161, 163 and 4 units in electives in economics.

B. Banking and Finance: Economics 133, 134, 135, and 7 units in electives in economics.

C. Marketing and Merchandising: Economics 123, 125, 171, and 7 units in electives in economics.

Geography 141 may be used in the electives under A. B. C.

LOWER DIVISION COURSES

1A-1B. Principles of Economics.

CAMERON

The basic principles of economics: utility, wealth, value, price; economic production, distribution, and consumption; rent, interest, wages, and profit; competition, monopoly, and large scale production; property, economic waste, and luxury; money and banking, international trade and tariffs; transportation corporations, labor problems, socialism, taxation, etc. Aims of the course: (1) to provide a foundation for further intensive study of economic problems; (2) to furnish to those who expect to follow business pursuits a broad foundation in economic principles; and (3) to introduce future citizens to political and economic problems of our time. Lectures, discussions, quizzes, and collateral reading. Not open to entering freshmen except by special arrangement.

Year course (3-3).

2A. Economic History of the United States.

WRIGHT

A comprehensive survey of American economic development and of national legislation in the field of industry.

Spring (3).

3A-14B. Accounting.

WRIGHT

A knowledge of bookkeeping not required and not advantageous. The balance sheet; profit and loss statement; various types of books of original entry; the opening, conducting, and closing of books for different kinds of businesses; organizations, reorganizations, dissolutions, and consolidations, etc., keeping in view the best modern accounting practice. Five hours lecture and laboratory.

Year course (3 or 4-3 or 4).

3A-18B. Commercial Law.

STANTON

The leading and fundamental principles of business law. Simple cases showing the actual application of the principles to commercial and business transactions, rather than the development of those principles. The subjects covered: contracts, sales, agency, partnerships, corporations, real property, negotiable instruments, insurance, and wills, with a brief study of evidence.

Year course (3-3).

4A-24B. Merchandising.

WATENPAUGH

The principles and methods of merchandising; the function and modes of operation of the retailer, the jobber and the manufacturer; types of merchandising; competition; prices; price factors; economics of selling; principles of buying and selling; inventory procedure; stock control; mark-ups and mark-downs; statistical organization and graphical presentation of merchandising data.

Year course (3-3).

5A. Salesmanship.

WATENPAUGH

The mechanics and theory of salesmanship; methods of approach and demonstration; selling ideas and services; meeting objections; inducing decisions; closing sales; the personal factor in connection with the sale.

Outstanding salesmen in the various crafts will illustrate correct methods of selling.

Fall (2).

25B. Advertising.

WATENPAUGH

Functions, theory, principles and applications; selecting the right appeal; surveys and analyses; studying markets; budgeting the appropriation; layouts, type, borders and illustrations; use of color; choice of mediums; writing publicity and promotion stories; openings, anniversaries, sales and special events; institutional copy; the advertising agency and its functions; sales and collection letters.

Spring (2).

UPPER DIVISION COURSES

100. Modern Economic Thought.

A. G. PETERSON

Classical doctrine in the light of recent economic theory. A critical analysis of contemporary economic thought. Prerequisite: Economics 1A-1B.

Spring (3).

101. Economic Problems of the New Deal.

A. G. PETERSON

A description and analysis of the present economic organization from the evolutionary point of view; a consideration of the institutions of government and the processes of law in the light of the economic problems with which they deal; a critical analysis of the recovery and reform features of the New Deal; a study of world economics with particular reference to the international aspects of the New Deal. Open to all upper division students.

Spring (3). (Not offered in 1935-1936.)

121. Business Administration.

A. G. PETERSON

Problems of business administration as an interrelated whole and as an indication of lines of study which may lead to the solution of those problems. A discussion of the problems of the business administrator with particular reference to the character of the problems involved and to the control policies and devices of the manager. Questions, problems, and case studies. Prerequisite: Economics 1A-1B.

Fall (3).

123. Marketing.

Our distributive organization and its functions, including the marketing of both agricultural and manufactured products. Prerequisite: Economics 1A-1B.

Spring (3).

125A. Advertising.

Functions, theory, principles and applications; selecting the right appeal; surveys and analyses; studying markets; budgeting the appropriation; layouts, type, borders and illustrations; use of color; choice of mediums; writing publicity and promotion stories; openings, anniversaries, sales and special events; institutional copy; the advertising agency and its functions; sales and collection letters.

Fall (2). (Not offered in 1935-1936.)

25B. Salesmanship.

Salesmanship, the market basket of knowledge; the mechanics of the mind; overcoming fear; the human element in selling; meeting competition; analyzing a sale in advance and methods of using this analysis in consummating a sale; personal attributes; selling an invisible commodity; selling a specialty; retail selling; the steps of a sale. Actual merchandise will be used in demonstration. Outstanding salesmen in the various crafts will illustrate correct methods of selling.

Spring (2). (Not offered in 1935-1936.)

131. Public Finance.

Principles and practice of taxation, public expenditures, and financial administration. Prerequisite: Economics 1A-1B.

Spring (3). (Not offered in 1935-1936.)

133. Corporation Finance.

CAMERON

The corporate form of organization, instruments of long-time finance, methods of raising capital, efficient financial management, and the financing of reorganizations. Prerequisite: Economics 1A-1B.

Fall (3).

134. Investments.

CAMERON

Investment principles and practices with emphasis upon problems of the small investor, such as tests of a good investment, sources of information, types of stocks and bonds, mechanics of purchase and sale, investment trusts, real estate mortgages, and the like.

Spring (3).

135. Money and Banking.

CAMERON

The elements of monetary theory. History and principles of banking with special reference to the banking system of the United States. Prerequisite: Economics 1A-1B.

Fall (3).

140. Statistical Methods.

BROOM

The nature and uses of statistical method in the social sciences. Practice in the tabular and graphical presentation of data; in the computation of averages, ratios and coefficients, measures of dispersion, and measures of relationship. Research studies are made, utilizing data obtained from typical economic and commercial situations, involving index numbers, time series, and business cycles and barometers. Opportunity to obtain practice in the use of calculating machines and other aids to computation. Prerequisite: Mathematics A, C, and D, or equivalents. Only two units of credit are available for this course in the case of students who previously have completed Education 140.

Spring (3).

151. Personnel Administration.

A. G. PETERSON

Principles of scientific management, labor turnover, selection and placement of personnel, discipline and discharge, methods of wage payment, health and safety, labor participation in management. Prerequisite: Economics 1A-1B.

Spring (3). (Not offered in 1935-1936.)

160A-160B. Advanced Accounting.

WRIGHT

An intensive study of the corporation, its accounting and financial problems; a thorough study of the balance sheet; depreciation; factory accounting, etc. Under practical accounting an endeavor is made to design, construct, and operate sets of books to meet the needs of different conditions and kinds of businesses. Six hours lecture and laboratory. Prerequisite: Economics 14A-14B.

Year course (3-3). (Not offered in 1935-1936.)

161. Cost Accounting.

WRIGHT

Principles and methods of cost accounting in the mercantile establishment and in the factory. A study of bookkeeping procedure, the forms used, and their application to practical problems. Prerequisite: Economics 14A-14B.

Spring (3).

162. Accounting Systems.

WRIGHT

The accounting systems used in various types of business and financial concerns. Some practice in devising and installing systems. Prerequisite: Economics 14A-14B.

Spring (3). (Not offered in 1935-1936.)

163. Machine Accounting.

WRIGHT

The application of mechanical accounting devices to accounting conditions together with a study of efficient machine methods that conform to good accounting practice and yet meet the practical accounting requirements that are found in many classes of business. In addition to a thorough study of machine installations, the course requires considerable practice in the operation of standard accounting machinery. Prerequisite: Economics 14A-14B.

Fall (3).

164. Income Tax Procedure.

WRIGHT

A consideration of the problems arising from the Federal income tax. The problems are approached from the point of view of the taxpayer who desires to determine the exact application of the law to the interests he represents as well as from the accounting point of view. No knowledge of accounting procedure is necessary.

Fall (2).

171. Transportation.

CAMERON

The development of railway transportation; railroad financing; rates and rate making; government regulation; government operation of railroads during the war; recent development of motor and air transportation; current problems. Prerequisite: Economics 1A-1B.

Spring (3). (Not offered in 1935-1936.)

199. Special Study.

THE STAFF

Designed exclusively for seniors with a major in economics or commerce.

Spring (2).

Economic Geography

(See Geography)

Social Science

LOWER DIVISION COURSES

1. Foundations of Civilization.

A. G. PETERSON

A survey course designed to aid the student in orienting himself effectively and usefully in the complex social life about him; to introduce the student to sound methods of approach in dealing with social, political and economic problems and to cause him to develop a scientific way of looking at himself and society; to stimulate interest and concern in the problems of the day and to arouse the student to independent and constructive thinking by bringing together the various lines of present-day thought, by offering interpretations of far-reaching and deep-moving changes in social institutions, and by calling attention to the essential unity of all knowledge and the basic objectives common to government, industry, education, religion and other social institutions.

Fall and Spring (3).

Sociology

50. General.

KELLY

A study of the nature and organization of human group activity, including the relation of cultural heritage to public opinion and social change.

Previous preparation in biology and psychology recommended.

Fall and Spring (3).

Social Psychology

(See Psychology)

Secretarial Training

A. Business Mathematics.

WRIGHT

A practical course in the mathematics of business. A thorough study of interest, compound interest, discount, amortization tables, insurance rates, etc.

Fall (1).

1A-1B. Typewriting.

AMSDEN

A rapid development of a thorough command of a keyboard by the touch method. The acquisition of speed and the artistic arrangement of typewritten material with special reference to commercial forms, tabulation and billing; specifications, legal forms, and preparation of manuscripts; transcription, mimeographing, etc. Eight hours lecture and laboratory practice.

Year course (3-3).

2A. Typewriting.

AMSDEN

A short course designed for those not wishing to enter the business office but desiring a knowledge of the use of the typewriter. Five hours laboratory practice.

Spring (2).

3A. Office Methods and Appliances.

WRIGHT

Practice and principles of office management, including organization, arrangement, and operation. Study and use of modern office appliances, such as the multigraph, mimeograph, filing devices, calculating and book-keeping machines. Prerequisite: Secretarial Training 1A or its equivalent.

Spring (3).

5A-5B. Stenography.

AMSDEN

An intensive course designed for the practical preparation of office secretaries. A thorough study of the Gregg System. Development of the ability to read and write shorthand rapidly and correctly, both literary and commercial. The shorthand speed necessary to pass a civil service examination is attained by the end of the year.

Year course (5-5).

6A. Advanced Stenography.

AMSDEN

Development of speed in writing and transcription. Advanced dictation on letter forms, legal forms, speeches, and literary material.

Fall (3).

10A. Business Correspondence.

AMSDEN

Theory and practice of business correspondence. Lectures and laboratory work. Prerequisite: English 1A or equivalent (as indicated by Subject A Test or record from another college).

Fall (3).

EDUCATION

A-P-R-S.

AULT AND STAFF

Supervised study in arithmetic, reading, spelling, and penmanship for teacher training students deficient in these subjects. Successful completion of one of these courses is accepted in lieu of a passing grade in the Fundamentals Test in the subject. The Fundamentals Test, including achievement tests in arithmetic computation, arithmetic reasoning, silent reading comprehension, spelling, and penmanship, is a prerequisite for admission to upper division teacher training and should be taken by all teacher training students in their freshman year. Those who pass this examination with satisfactory standing are excused from Education A-P-R-S.

Fall and Spring (0).

17. Music in the Elementary School.

SPRINGSTON

Main objectives of music teaching in the public elementary schools. Study of the child voice. Organization of song material by grades. Pro

cedure in presenting rote songs, ear training, elementary notation, sight singing and part singing. Conducting. Not open to students taking the elementary credential. Prerequisite: Music 1A, or the equivalent.

Fall and Spring (2).

9. Art in the Elementary School.

PATTERSON

Discussion of the elements and principles of art and their place in the art expression and appreciation of the elementary school child. Lectures illustrated with examples of children's work and opportunity given for experience with mediums used in elementary school problems. Not open to students taking the elementary credential. Prerequisite: Art 6A.

Fall and Spring (2).

UPPER DIVISION COURSES

06. Philosophy of Education.

AULT

The fundamental biological, psychological, philosophical, social principles underlying modern education, in connection with the demands of modern society in a complex social, economic, and scientific world, with view to the formulation of a working philosophy for the educative process. Designed as a culmination of the studies of education and its procedures. Open only to students with senior standing.

Spring (3).

07. History of Education.

AULT

A brief study of early Hebrew, Greek, Roman and early Christian education; of the changes brought about by the Renaissance; of the transition to modern secular education; brief reviews of the educational philosophies of the great reformers; a concluding study of the development of the American school system and of American ideals and practices in education. Only 2 units allowed for students having credit for Education 107, History of Education in the United States (offered in the summer session).

Fall (3).

08. Educational Measurements.

BROOM

A brief survey of the development of scientific measurement in the elementary school field, including an intensive study of the more reliable and valid tests of school achievement and of mental ability. Statistical training given in handling data obtained by using measurements in typical school situations, leading to a study of the uses of tests. Practice in the construction of teacher-made, objective tests in the elementary school subjects.

Fall and Spring (3).

09. Educational Administration and Supervision.

BROOM, HARDY

A survey of the systems of organization, classification, and promotion of pupils, and such problems as finance, the teaching staff, building standards, extra-curricular activities, etc. Prerequisites: Education 125, 08, or equivalents.

Spring (2).

110. Educational Organization and Supervision.

BROOKS

Types of supervision and methods of evaluating and improving teaching. Prerequisites: Education 125, 108, or equivalents.

(2)

111. English in the Junior High School.

DICKHAUS

Objectives of literature and language teaching in the junior high school; criteria for selection of material; technique of classroom procedure; observation in the city schools. Prerequisite: The satisfaction of the lower division requirements in English for the teaching major in English.

Spring (2).

112. Mathematics in the Junior High School.

RICHARDSON

The subject matter, management of it, and methods of teaching it in the junior high school curriculum in general mathematics. Specific problems: the application of arithmetic in current social and business life, intuitive geometry, graphic representation, the phase of algebra suitable to the junior high school pupil, preparation for senior high school mathematics. Prerequisites: Psychology 1A and a passing grade in the Fundamental Test.

(2) (Not offered in 1935-1936. Students will substitute Mathematics 19).

114. Social Science in the Junior High School.

NID

The teaching of some of the elementary facts and principles of "general" social science suited to the experience and development of the junior high school pupil, through the medium of such social studies in the junior high school curriculum as history, geography, and civics. Methods of developing a genuine and continuing interest in social and civic problems through observation and reading, discussed and illustrated. Special stress on evaluating historical and geographical material for educative purposes on this level. Prerequisites: Six units of geography and six units of history.

Fall and spring (2).

116. Practice Teaching.

AULT AND SUPERVISOR

Systematic observation, participation and teaching under supervision in the campus training school, the Euclid affiliated city elementary school, and the junior and senior high schools of the city of San Diego and vicinity.

The general plan is for elementary school credential candidates to take, in addition to the education practicums, two hours of teaching daily in the campus training school or two and one-half hours daily in the Euclid school throughout one semester; junior high school and special secondary school credential candidates will be guided by their adviser relative to the distribution of their practice teaching. For those seeking a combination of credentials, the requirements for each teaching level must be satisfied. Further information regarding this requirement should be requested of the Dean of Education when the student first registers for practice teaching.

Thirty clock hours of practice teaching will usually carry one unit of credit in the course, but the final amount of credit allowed will depend upon the character and quality of the teaching done by the student.

practice teaching requirements may be reduced for those who furnish evidence of successful public school experience.

The maximum amount of credit allowed for this course is twelve units. The universities usually reduce the amount of practice teaching credit they will allow to four units. Students planning to transfer to such institutions should be prepared to meet this reduction with an equal number of acceptable units in other courses.

No grade below a C is acceptable for credit in this course.

Prerequisites: Admission to upper division teacher training; a C average in all college work and in the work of the preceding semester; three units of work in psychology. No credit will be given for this course unless registration is made in the office of the Dean of Education.

19. Art in the Junior High School.

PATTERSON

Art curriculum planning for junior high schools and studio problems and discussion. **Prerequisite:** Education 19.

Spring (2). (Offered in odd-numbered years.)

20. General Science in the Junior High School.

SKILLING, M. E. JOHNSON

The content, methods, field work, text books, laboratory work, equipment, and reference reading for teaching general science in a junior high school. **Prerequisites:** Eighteen units of college science including one year-course in a college biological science, Physics 2A-2B, or equivalent, and high school or college chemistry.

Spring (2). (Offered in odd-numbered years.)

21. Principles of Secondary Education.

NIDA

The principles of educational science that should underlie the organization, administration and curriculum of the secondary school. Prevailing patterns of high school education; tendencies in the direction of future development. Particular attention to the method of directing learning in the secondary schools. **Prerequisite:** Psychology 1A. Open only to students with senior standing.

Fall and Spring (3).

24. Romance Languages in the Junior High School.

PHILLIPS

A consideration of the main questions of pronunciation, grammar, composition, reading, texts, etc., as applied to teaching elementary classes in French and Spanish; the different methods; their history and value. **Prerequisite:** Two years of college French or Spanish.

Spring (2).

25. The Elementary School Curriculum.

BROOM

An analytical and constructive curricular study of the subject matter taught in the elementary school, with particular emphasis on the upper elementary grades; together with an intensive study of teaching techniques in the elementary school, including observation of typical teaching procedures. The course embraces individual and group research work in curricular materials, visual aids, type lessons, and experimental studies of teaching methods.

Required of candidates for junior high and special credentials. Candidates for a combination of the elementary and junior high school credentials

must register for the education practicum instead of this course. Prerequisite: Education 108, taken previously or at the same time.

Fall (3).

127. Music in the Secondary School.

L. D. SMITH

Main objectives of music teaching in the public secondary schools. Organization of the chorus and glee clubs, voice testing, seating, a survey of song materials available. Organization of courses in applied music harmony, history and appreciation.

Fall (2). (Offered in odd-numbered years.)

130. Educational Psychology.

BROOKS

Man's equipment for learning and the learning process. Consideration given to human behavior which is fundamental to learning. The study of learning includes such topics as laws of learning, improvements in learning, remembering and forgetting, fatigue in learning, and the transfer of training. Prerequisite: Psychology 1A.

Spring (3).

137. Comparative Education.

AUL

School systems of England, France, Germany, and Denmark; traits of peoples; origin and development of school systems; literacy of populations; traditional influences; characteristic types of schools and educational procedures; governmental and private support; training of teachers.

A knowledge of History of Education desirable but not required.

Fall (3). (Not offered in 1935-1936.)

140. Elementary Educational Statistics.

BROOKS

An introductory study of measures of central tendency, of variability, and of relationship which are commonly used in connection with educational work. Laboratory training in statistical method and opportunity to obtain practice in the use of calculating machines and other aids to computation. Data for statistical research taken from typical school situations. Only 2 units allowed students who have taken Economics 141.

Fall (3).

145. Organization and Administration of Music Education.

L. D. SMITH

Theory of the general principles of music administration; correlation of music with the various subjects in the public schools; music tests and creative work.

Fall (2). (Offered in even-numbered years.)

147. Education Practicum—Lower Levels (See description below).

148. Education Practicum—Upper Levels (See description below).

1. Plan for 1935-1936.

The educational practicums will include the work formerly offered in Education 1, 17, 19, 125A, 125B, 126, and 129.

In place of the discontinued courses all upper division candidates for the elementary school credential will be required to take the two educational practicums, the one dealing with the lower levels being prerequisite

to the one dealing with the upper levels. The material covered will be equivalent to the courses discontinued, plus four units of practice teaching. The maximum credit allowed for each practicum is 10 units.

A group of courses taken at this or another institution will not be considered as a substitute for the educational practicums. If such independent courses have been completed in this college previous to September, 1934, or in another teacher training institution, credit may be submitted to the Dean of Education and, with his approval, an equivalent may be allowed.

2. Content of the Practicums.

Characteristics of children in the elementary school; organization of the activity program; study of activities and materials based on children's interests, capacities, needs, and the local environment; teaching and learning procedures in the fields of reading, language, writing, use of numbers; observation and participation in actual classroom situations.

3. Schedule of Work.

Lectures, discussions, and observations held daily by each supervisor and the principal of the training school from 8.10 to 10.00 a.m.; also, participation for one hour daily in the activities of the pupil-group to which he is assigned will be required of each student.

4. Registration for Education Practicums.

The practicum courses are to be taken by the student in his junior year. Assignments will be made by the principal of the training school at the time of preregistration of upper division teacher training students.

60. Commercial Education.

WRIGHT

Aims, objectives and procedures in commercial education. A study of curricula, together with a consideration of the content of commercial subjects; tests applicable to commercial teaching.

Fall (2).

61. Junior Business Training.

WRIGHT

The methods and content of the course in the elements of business training as offered in the junior high school. Not open for credit for those who have taken Secretarial Training 3A.

Spring (2).

63. Stenography.

AMSDEN

Methods and content of courses in stenography. Prerequisite: Secretarial Training 5A.

Fall (2).

64. Bookkeeping.

WRIGHT

Various types of bookkeeping method, with considerable study of content.

Fall (2).

65. Typewriting.

AMSDEN

Methods in typewriting and office procedure. Prerequisite: Secretarial Training 1A.

Spring (2).

170. Administration of a Visual Instruction Program.

EVANS

Supervised study and practical experience in the various phases of work in a visual instruction center. Aims to give teachers a specific knowledge of visual instruction materials and methods and to meet the needs of individuals interested in obtaining training in the administration phases of a visual instruction program to fit them for positions as directors of staff workers in the field.

The service program of a visual instruction center is studied as a collecting, selecting, organizing and distributing center for classroom illustrative materials; a teacher training and advisory bureau in the technique and correct use of visual aids; a photographic production laboratory for making current and local illustrative materials for the curriculum; a testing division for evaluating visual equipment, standardization and upkeep of same; a center for correlating and integrating the school program with opportunities offered by other community educational institutions and organizations; an advisory department for supervising school film productions and for instructing teachers and students in the art of photography and appreciation of photoplays.

This course is given at the visual education center of the San Diego city schools and the enrollment is limited to students who have made previous arrangements with the head of the Education Department and with the instructor.

Fall and Spring (2).

199. Educational Problems.

EDUCATION STAFF

(Dean of Education in Charge)

A course for senior students in teacher training who have shown ability to work independently on educational problems. Admission only by consent of the staff. Credit and hours to be arranged.

Fall and Spring (1-3).

ENGLISH

Lower division preparation for the presecondary major in English and for the junior certificate: English 1B-2 or 3 and six units from 52A, 52B, 56A, 56B.

Presecondary major (upper division): 24 units in upper division English to be selected and arranged under supervision of the department. Not over four units may be in composition. A reading knowledge of German or French.

LOWER DIVISION COURSES

1A. Freshman English.

ADAMS, KEENEY

The elements of composition, including drill in grammar and usage exercises in vocabulary building and careful reading, and an introduction to the principles of effective writing.

Fall and Spring (1).

1B. Freshman English.

ADAMS, ANDERSON, DICKHAUT, KEENEY, F. D. WALKER

Reading and composition. Reading chosen from essay material of England and America since 1850. Composition stressing exposition

Prerequisite: English 1A or equivalent (as indicated by Subject A test or record from another college).

Fall and Spring (3).

2. Sophomore English.

ANDERSON, F. D. WALKER

Reading and composition. Reading from field of biography and memoirs. Composition stressing personal narrative and informal essay. Prerequisite: English 1B.

Fall and Spring (3).

3. Sophomore English.

ADAMS

Reading and composition. Reading from contemporary periodical literature. Composition stressing article writing of varied types. Prerequisite: English 1B.

Fall and Spring (3).

4A-4B. Great Books.

OUTCALT

A survey of books and bodies of literature that are significant sources or expressions of European and American culture. These include the Hebrew Bible, Greek epic and tragedy, Norse eddas, and other literature of religious and communal character; and highly significant masterpieces in poetry and prose by great authors down to the nineteenth century.

Year course (3-3).

10. Recreational Reading.

DICKHAUT

Development of personal tastes for leisure-time reading through lectures and oral or written reports. May be taken a second time with new material.

Fall and Spring (1).

52A-52B. Types of Literature.

OUTCALT

Semester I: Introduction to the study of lyrical and narrative poetry; origin and elements of poetry; typical poems. Semester II: Introduction to the study of dramatic poetry and prose, the essay, novel and short story; elements, principles and characteristics; examples.

Year course (3-3).

56A-56B. Survey of English Literature.

KEENEY, ADAMS

The most important masterpieces of English literature from the Anglo-Saxon period through the Victorian age.

Year course (3-3).

UPPER DIVISION COURSES

101. Modern Prose Fiction.

DICKHAUT

Recent and contemporary fiction in novel and short story, beginning with Meredith and including the best British and American fiction of today.

Spring (3).

106A, 106B. Advanced Composition.

DICKHAUT

A laboratory course in modern prose writing. Semester I: Artistic narrative, with description. The short story. Semester II: The essay,

the magazine article, criticism. Outside readings. Prerequisite: One year of college composition. Either semester may be taken first.

Fall, Spring (2, 2).

107A, 107B. Advanced Composition.

ADAMS

These courses, which have the same requirements as 106A, 106B, are designed for students who wish to do independent work in composition. The discussions will consider the problems of effective expression as exhibited in the work of the members of the class. Either semester may be taken first.

Fall, Spring (2-2). (Not offered 1935-1936.)

110. Recreational Reading.

DICKHAUS

An advanced course similar in character to English 10.

Fall and Spring (1).

116. Elizabethan Literature.

ADAMS

An introduction to the principal writers from Wyatt and More to Johnson and Bacon. Approximately equal attention is given to the non-dramatic poetry, the prose, and the drama of the period.

Fall (3). (Offered in even-numbered years.)

117. Shakespeare.

OUTCAL

Extensive reading of Shakespeare's plays, with special attention to select group of the comedies and another of the tragedies. Lectures and special reports.

Spring (3).

118. Makers of Eighteenth Century Literature.

KEENE

Pope, Defoe, Swift, Johnson, Goldsmith, Fielding, and their contemporaries as interpreters and teachers of their age.

Spring (3).

119. The Romantic Poets.

ADAMS

A study of early nineteenth century poetry; the work of Wordsworth, Coleridge, Byron, Shelley, and Keats, in relation to the thought of the revolutionary period.

Spring (3).

121. Poetry of the Victorian Period.

F. D. WALKER

A study of Tennyson and Browning and their contemporaries and successors, relating English poetry to nineteenth century life and thought.

Fall (3). (Offered in odd-numbered years.)

126. Anglo-Irish Prose from Landor to Galsworthy.

DICKHAUS

Discussion, criticism belles-lettres in England and Ireland from the Victorians to the late Georgians, including selections from Carlyle, Mill, Huxley, Newman, Stevenson, Pater, Shaw, Russell, West, Beerbohm, Chesterton, Inge, and others. Lectures and reports on outside reading.

Fall (3).

0A. American Literature.

OUTCALT

A survey of American Literature with its backgrounds from the beginning of the 19th century to about 1890. Cooper, Melville, Hawthorne, Poe, Emerson, Thoreau, Whitman, Mark Twain and others are considered and related to national development. Lectures, discussions, and reports. Fall (3).

0B. American Literature.

F. D. WALKER

A survey of American literature with its backgrounds, covering the period from about 1890 to the present time. Extensive reading in recent and contemporary poetry, fiction, etc. Lectures, discussions and reports. Spring (3).

3. The Development of the English Novel.

F. D. WALKER

History of the English novel from the beginnings to Hardy. Extensive reading of novels with reports. Lectures and discussion. Fall (3). (Offered in even-numbered years.)

11. Medieval Literature.

KEENEY

The literature of the fourteenth century, especially the verse romances and the poetry of Chaucer. Fall (3).

10. Milton and Dryden.

ADAMS

Studies in poetry of the seventeenth century, relating it to the thought and the social life of the age. Fall (3). (Offered in odd-numbered years.)

Speech Arts

LOWER DIVISION COURSES

A. Fundamentals of Public Speaking.

PFAFF

Training in fundamental processes of oral expression; methods of obtaining and organizing material; outlining principles of attention and delivery; extemporaneous speaking and open forum debating; practice in construction and delivery of type forms of speech. Fall and Spring (3).

B. Extemporaneous Speaking (or Forum Speaking).

PFAFF

Practice in extemporaneous speaking on subjects of current interest both national and local, with stress laid on the organization and delivery of content material. Forum discussion will provide speakers with the opportunity of assembling facts quickly to meet such questions as any audience situation might demand. Spring (3).

C. Oral Interpretation.

PFAFF

The oral interpretation of longer literary selections, both in poetry and prose; a fundamentals course designed for the beginning students in drama as well as those majoring or minoring in English literature. Fall (3).

1D. Advanced Interpretation.

PFAF

Emphasis placed on stage poise and grace with adequate attention given to variations in the presentation of literary selections. Much opportunity is provided for individual and group creative work. No prerequisite. Class limited.

Spring (3).

20. Corrective Speech.

PFAF

Corrective laboratory training prescribed on the basis of vocalization tests made on Edison machine. Required of education majors who fail to meet speech requirements test. Also recommended for those who plan public careers.

Fall and Spring (1). (9 weeks' course.)

55A-55B. Dramatic Production.

JONE

A course for first and second year students in which, through participation, they acquire an understanding of certain dramatic periods and type studied in English literature. Individual and group expression coordinated and developed in production of scenes, acts, and plays—a fundamental drama course. No prerequisite.

Year course (3-3). (Offered in odd-numbered years.)

55C-55D. Dramatic Expression.

JONE

A course designed to help first and second year students realize and develop their own abilities for expressing character and life. Coordination of thought, voice, and body, acquired through interpretation, impersonation, and acting of contemporary situations, creative and standard drama. History, technique, and use of dramatic expression studied. Informal participation by all. Best work given public performances. A fundamental course.

Year course (3-3). (Offered in even-numbered years.)

UPPER DIVISION COURSES

101B. Argumentation and Debate.

PFAF

Obtaining and organizing of evidence and the construction and use of the brief; study and discussion of current issues; the presentation of formal and informal debates. Attention to intramural and intercollegiate debating.

No credit for students having taken 1B previous to 1934-1935.

Spring (3).

155A-155B. Advanced Dramatic Expression.

JONE

For upper division students training for leadership in different fields as well as drama. More advanced forms of dramatic expression studied creative abilities in interpretation, writing, acting, and stagecraft developed in relation to various subjects and activities conducted through individual research projects, group discussion and participation. Original work encouraged. Prerequisite: A fundamental drama course.

Year course (3-3). (Offered in odd-numbered years.)

156A-156B. Advanced Dramatic Production.

JONES

The study of more difficult dramatic types and periods in the production of poetic and prose literature of different countries. Arrangement, organization, creation, direction and presentation of class room, recreational and other forms of performances. Practical participation and demonstration. A course designed for students majoring in other subjects as well as the theater arts.

Year course (3-3). (Offered in even-numbered years.)

JOURNALISM

(See page 99)

FOREIGN LANGUAGES

Lower division preparation for advanced work in a foreign language and for the junior certificate: Sixteen units of credit in the language chosen for the major, and: History 4A-4B.

Lower division preparation for the presecondary group major in the Romanic languages: French A-B, C-D, and Spanish A-B, C-D.

The group major requirements are based on the assumption that the student will have taken courses in the high school equivalent to the college course in elementary French or Spanish.

Presecondary group major (upper division). Twenty-four units of upper division work in French and/or Spanish; or eighteen units in French and/or Spanish, and six units in related subjects, arranged in consultation with the chairman of the department. At least a C average in all courses. Recommended: Geography 118.

French

LOWER DIVISION COURSES

A-B. Elementary.

E. M. BROWN, PHILLIPS

Intensive study of French grammar and syntax; daily written work discussed in class; class drill in conversational idiom and pronunciation; reading with oral discussion and résumés; dictation: introduction to contemporary prose writers; study of the principles of French prosody, with memory work. Credit not given for French A unless followed by French B. Students who have had one year of French in high school should register for French A, but will receive only two units of credit. Those who have had two years of French in high school should register for French B, in which case they will receive four units of credit.

Year course (5-5).

C-D. Intermediate.

E. M. BROWN, L. P. BROWN, PHILLIPS

Reading and composition; study of standard prose as a basis for class work; collateral reading with résumés and written reports in French; study of French prosody, with selections for memorizing; dictation. Class work conducted mainly in French. Individual conferences. Prerequisite: French B or three years of high school French, or its equivalent. Students with credit for four years of high school French, or its equivalent, should enter French D.

Year course (3-3).

SC. Scientific.

L. P. BROWN

Readings taken from the fields of chemistry, physics, medicine, zoology, biology, etc. Outside readings of books and periodicals. Oral and written reports. Prerequisite: French B or equivalent.

Fall (2). (Offered in odd-numbered years, if registration warrants.)

UPPER DIVISION COURSES

101A-101B. Conversation and Composition.

E. M. BROWN

Prerequisite: French D, or its equivalent, with grade of C.

Year course (3-3). (Offered in 1936-1937.)

105A-105B. Modern French Drama.

E. M. BROWN

Plays of Musset, Scribe, Augier, Dumas fils, Pailleron, Brieux, Hervieux, Maeterlinck, Rostand, and others read and discussed as to subject matter and technique. Outside reading and reports. Prerequisite: French D, or its equivalent, with grade of C.

Year course (3-3). (Offered in 1937-1938.)

107A-107B. Eighteenth Century Literature.

L. P. BROWN

The philosophical ideas of the century as contained in the works of Montesquieu, Voltaire, and Rousseau. The *Encyclopédistes*. Prerequisite: French D, or its equivalent, with a grade of C.

Year course (3-3). (Offered in 1936-1937.)

110A-110B. Modern French Novel.

E. M. BROWN

The French novel from Victor Hugo to the present day, including such authors as: Hugo, Dumas, Stendhal, Balzac, Flaubert, Loti, Anatole France, Bourget, Bordeaux, Bazin, Barres, Romain Rolland, A. Gide, Marcel Proust, and others. Class and outside reading and reports. Prerequisite: French D, or its equivalent, with grade of C.

Year course (3-3).

111A-111B. Seventeenth Century Dramatic Literature.

E. M. BROWN

Reading in class of plays of Molière, Corneille, and Racine. Outside readings and lectures on the background of the seventeenth century in France. Prerequisites: French D, or its equivalent, with a grade of C, and upper division standing.

Year course (3-3). (Offered in 1938-1939.)

German

LOWER DIVISION COURSES

A-B. Elementary.

H. K. WALKER

Pronunciation, reading and grammar, with practice in simple conversation, narration and description, both oral and written. Credit not given for German A unless followed by German B. Students who have had one year of German in high school should register for German A, but will receive only two units of credit. Those who have had two years of German in high school should register for German B, in which case they will receive four units of credit.

Year course (5-5).

C-D. Intermediate.

H. K. WALKER

Reading and composition; study of standard prose as basis for class work; collateral reading with written reports; German conversation, with the texts read as a basis; dictation. Prerequisite: German B or three years high school German, or its equivalent. Students with credit for four years high school German, or its equivalent, should enter German D.

Year course (3-3).

C-SD. Scientific.

MESSNER

Fall semester. Readings in scientific reader on chemistry, physics, etc.; occasional written reports on scientific subjects read outside of class; sight reading. Spring semester. Readings in special scientific or technical works; weekly written reports required; sight reading. Prerequisite: German SC-German B with a grade of C or three years of high school German; German SD-German C with a grade of C or four years of high school German.

Year course (2-2).

Spanish

LOWER DIVISION COURSES

A-B. Elementary.

L. P. BROWN, PHILLIPS

Intensive study of Spanish grammar and syntax, with daily written work; class drill in conversational idiom and pronunciation; reading with oral discussion and resúmenes; dictation; introduction to contemporary prose writers; study of the principles of Spanish prosody, with memory work. Credit not given for Spanish A unless followed by Spanish B. Students who have had one year of Spanish in high school should register for Spanish A, but will receive only two units of credit. Those who have had two years of Spanish in high school should register for Spanish B, in which case they will receive four units of credit.

Year course (5-5).

C-D. Intermediate.

PHILLIPS

Reading and composition; study of standard prose as basis for class work; collateral reading in prose and drama, with written reports in Spanish; a study of Spanish prosody, with selections for memorizing; dictation. Class work conducted mainly in Spanish. Individual conferences. Prerequisite: Spanish B or three years of high school Spanish, or its equivalent. Students with credit for four years of high school Spanish, or its equivalent, should enter Spanish D.

Year course (3-3).

1-2. Elementary.

L. P. BROWN

A course similar to Spanish A-B, but meeting only three times a week and giving only three units of credit a semester. Intended for those who do not wish to major in Romanic languages; for those who wish to go more slowly than is possible in a course meeting five times a week; and for those who wish to take one language for one and one-half years to fulfill the requirement of nine units of work in one language in the presecondary curricula. Students who have had one year of Spanish in high school should register for Spanish 2.

Year course (3-3).

3-4. Intermediate.

A continuation of Spanish 1-2. Reading of Spanish prose; composition; outside reading in Spanish 4, with reports. Students with two years of high school Spanish should register for Spanish 3 or Spanish B. Those with three years may register for either Spanish 4 or Spanish C.

Year course (3-3). (Not offered in 1935-1936.)

UPPER DIVISION COURSES

101A-101B. Conversation and Composition.

PHILLIPS

Prerequisite: Spanish D, or its equivalent, with grade of C.

Year course (3-3).

102A-102B. Introduction to Spanish Classics.

L. P. BROWN

Reading from several types of classical literature. *Lazarillo de Tormes* and other novels of *Rogueria*; selections from *Don Quixote*, and the *Cien Mejores Poesias Castellanas*; one drama each from the works of *Lope de Vega*, *Calderon*, *Alarcon*, and *Moreto*; collateral reading and reports. Prerequisite: A grade of C in Spanish D or permission from the instructor.

Year course (3-3). (Offered in 1938-1939.)

104A-104B. Spanish-American Literature.

PHILLIPS

A survey of the whole field of Spanish-American literature during the colonial, revolutionary and modern periods, with special attention during the second semester to the literature of one country. Collateral reading and reports. Prerequisite: A grade of C in Spanish D or permission from the instructor.

Year course (3-3). (Offered in 1936-1937.)

105A-105B. Modern Spanish Drama.

L. P. BROWN

The development of the drama of Spain from the beginning of the nineteenth century to the present time. Prerequisite: A grade of C in Spanish D or permission from the instructor.

Year course (3-3).

110A-110B. Novel and Short Story in Spain.

L. P. BROWN

The development of the novel and short story in Spain from 1830 to the present time. Prerequisite: A grade of C in Spanish D or permission from the instructor.

Year course (3-3). (Offered in 1937-1938.)

General Language

LOWER DIVISION COURSE

A. Latin and Greek Word Derivation.

L. P. BROWN

A general and elementary course in philology. A study of Latin and Greek roots of most frequent occurrence in English, and of the English words derived from them. Not open to first semester freshmen.

Spring (2).

GEOGRAPHY

Lower division preparation for the presecondary major in geography and for the junior certificate; Geography 1, 2, 3, and Geology 1A-1B. Recommended: A reading knowledge of French or German.

Presecondary major (upper division): Twenty-four units of upper division work in geography or 18 units in geography and six units in related subjects arranged in consultation with the chairman of the department.

LOWER DIVISION COURSES

1. Introduction to Geography; Elements. CLARK, STORM

The fundamental principles of geography, the distribution of life upon the earth, and the effects of environment upon the activities of man. Climate, land forms, bodies of water, natural resources, and location in their relation to human activities. Open to all students.

Fall and Spring (3).

2. Introduction; Natural Regions and the Distribution of Population and of Cultures. CLARK, STORM

The application of the fundamental principles of geography to the various regions of the world. Comparison of regions with regard to different stages of development. Prerequisite: Geography 1.

Fall and Spring (3).

3. Elementary Meteorology. BLAKE

An elementary study of the earth's atmosphere and changes in it which produce our weather and influence human affairs. Special attention given to local conditions, instruments, and records.

(3).

4. Geography of California. STORM

The main physiographic regions of California and the cultural landscapes developed by the successive cultural groups. Prerequisite: Geography 1.

Spring (2).

UPPER DIVISION COURSES

16. Geography of South America. CLARK

The climate, topography, and natural resources of the South American countries; the effect of those physical factors upon the economic, commercial, and racial problems of the different nations. Prerequisite: Geography 1.

Spring (3).

17. Geography of Northwestern Europe. CLARK

The physical environment of each of the nations of the area and their reactions to physical environment in their political and social relations. Importance of the countries in manufactures. This course is planned so to familiarize the student with modern European countries that he

can read current periodical literature with understanding and interest
Prerequisite: Geography 1.

Fall (3).

118. Geography of the Mediterranean Area.

CLARK

A treatment of Southern Europe, Western Asia, and Northern Africa as a unit and a comparison of the land forms, climates, types of native vegetation, cultivated crops, industrial status, and present world position also the effect of geographic factors on the history of the area. Prerequisite: Geography 1.

Spring (3).

121. Geography of North America.

STOR

The natural regions of North America, their formation and economic and historical development. Prerequisite: Geography 1.

Fall (3).

124. Geography of Asia.

STOR

The cultural regions of Asia, their physical environment, and historical development. Prerequisite: Geography 1.

Spring (3).

135. Geography of the San Diego Area.

CLARK, STOR

Directed individual rural and urban field work of San Diego area including the mapping of a small area and its geographic interpretation. Prerequisites: Geography 1, 2, and Geology 1A.

Fall (2). (Offered in even-numbered years.)

141. Economic Geography.

STOR

A world-wide survey of the raw materials of world trade; their production and distribution as related to the major geographic regions of the world. Prerequisites: Geography 1 and 2.

Fall (3).

GEOLOGY

LOWER DIVISION COURSES

1A. General.

BROO

The composition and distribution of earth materials, and their modification through mechanical and chemical processes of change. Three lectures and one three-hour laboratory period weekly with related field studies during the semester.

(Students who have taken Geology 1C may receive only 2 units credit for Geology 1A.)

Fall and Spring (4).

1B. Historical.

BROO

Theories of earth origin, and the evolutionary history of the earth traced through rock and fossil records. Consideration of the geological history of selected regions. Three lectures and one three-hour laboratory period weekly, with arrangement for field study and conference during the semester.

Spring (4).

1C. Elementary Physiography.

BROOKS

An introductory course in earth science presenting a study of earth features and the condition under which they have been formed. (Not open to students who have had Geology 1A.)

Fall (3).

UPPER DIVISION COURSES

100. Physical Geology.

BROOKS

The evolution and description of the structural and topographical features of the earth. Faulting, folding, and orogenic forces with practical illustrations from the North American Continent. Lectures, discussions, and occasional field trips. Prerequisite: Geology 1A-1B.

Fall (3).

101. Geologic Problems.

BROOKS

Reconnaissance of adjacent areas with elementary mapping; or directed reading from a prepared syllabus introducing the several phases of geologic literature; or selection and preparation of material for the museum collections. Prerequisite: Geology 1A-1B. Registration subject to approval of instructor.

Spring (1-4).

GERMAN

(See Foreign Languages)

HEALTH AND PHYSICAL EDUCATION

(See Physical Education)

HISTORY

Lower division preparation for the presecondary major in history and for the junior certificate: History 4A-4B, or 8A-8B, and either Political Science 1A-1B, Economics 1A-1B, or Geography 1 and 2. No student shall enroll in more than one lower division history course during a semester. Students who wish to major in history and who have had less than two years of European history in high school must take History 4A-4B.

Presecondary major (upper division): Twenty-four units in upper division courses in history to be arranged in consultation with the chairman of the department. The student must, in his senior year, enroll in History 199.

LOWER DIVISION COURSES

4A-4B. History of Modern Europe.

LESLEY

Development of European society and institutions from about 1500 A.D. to the present time.

Year course (3-3).

8A-8B. History of the Americas.

NASATIR

A general survey of the history of the western hemisphere from the discovery to the present time. Emphasis on the process of planting

European civilization in the new world, the international contest for the continents, the wars for independence, the development of the American republics, and their relations with each other and with the rest of the world. Based on H. E. Bolton's "Syllabus of the History of the Americas."

Year course (3-3).

UPPER DIVISION COURSES

111A-111B. Ancient History.

LESLEY

Semester I: Social, economic, political, and cultural development of the Greek states with emphasis upon the growth of democracy, attempts at federal union, imperialism, and Hellenism. Semester II: Roman history from the earliest times to the beginning of the medieval period; discussions of Roman imperialism and the main constitutional, economic, social, and religious developments in the republic and the empire.

Year course (3-3).

121A-121B. Medieval History.

LESLEY

General survey of European politics and the cultural development of the Middle Ages; the antecedents of the Renaissance; development of medieval life and institutions, feudalism, the church, the universities, and intellectual tendencies. The rise of towns, of new nations, and of new thought especially in the twelfth and thirteenth centuries. Period covered 500-1500 A.D.

Year course (3-3). (Not offered in 1935-1936.)

145A-145B. Europe Since 1789.

LESLEY

Revolutionary era; conflict of reaction and liberalism; development of nationalism, with special attention devoted to the unification of Germany and Italy; events leading up to the World War and contemporary problems of Europe resulting from that conflict.

Year course (3-3). (Not offered in 1935-1936.)

146A-146B. Diplomatic History of Europe.

LESLEY

European diplomatic and colonial policies since 1648, with detailed attention to the basic factors in international organization and procedure. During the second semester special emphasis upon the period 1870-1914.

Year course (3-3).

151A-151B. England Since the Norman Conquest.

NASATIR

A survey of political and constitutional development in England since 1066, stressing the transition from medieval to modern England, Tudor despotism, the struggle for self-government under the Stuarts, the rise and development of present-day political and social institutions.

Year course (3-3).

156A-156B. History of British Expansion.

NASATIR

A study of the growth, development, and break-up of the older overseas empire; the beginnings of the newer empire after 1783; the rise, federation, and imperial relations of the self-governing dominions; the crowning

colony system; India under British rule; and British expansion in Africa and the Pacific.

Year course (3-3). (Not offered in 1935-1936.)

161. South America Since Independence.

NASATIR

A study of the republics of South America. Attention directed to the development of nationality in South America, the struggles for political stability, the exploitation of resources, diplomatic and commercial relations with the United States, and other international problems of South America. Survey of present-day conditions, political, economic, and social.

Spring (3).

163. Mexico and the Caribbean Countries.

NASATIR

Same plan in general as outlined in History 161. Special attention to the relations of the United States with these countries, and to the recent developments in Mexico.

Fall (3).

171A-171B. The Rise of the American Nation.

LEONARD

Semester I. English colonization in North America and the development of colonial institutions and politics. Semester II. The revolutionary movement and the Revolutionary War; the establishment of the government under the Constitution to the close of the War of 1812.

Year course (3-3). (Not offered in 1935-1936.)

173A-173B. The Expansion of the United States.

LEONARD

The rise of Jacksonian Democracy; territorial expansion and the Mexican War; the slavery controversy; the Civil War, and reconstruction; the growth and progress of the United States to the World War.

Year course (3-3).

199. Special Course for Advanced Students.

LEONARD

Required of all students with a history major in the presecondary curriculum and to be attended during the senior year. Other students may be admitted with the permission of the instructor.

Spring (2).

HYGIENE

LOWER DIVISION COURSES

1. Personal and Civic (Men).

C. E. PETERSON

An informational course in personal and community hygiene. A study of social hygiene and the hygienic principles of living. Investigations by each student of special topics which serve to vitalize the means for protecting and improving the health of the community. It is especially desirable that this course be taken in the first semester of the freshman year.

Fall and Spring (2).

2. Personal and Civic (Women).

TANNER

An informational course reviewing the principles underlying the improvement and preservation of personal and civic health. Social

hygiene in its relations to the practical problems of young women and prospective home makers. The laws and procedures in local civic health matters of particular interest to women studied in detail. Required of all freshmen who are candidates for the junior certificate or the degree in the presecondary curricula.

Fall and Spring (2).

INDUSTRIAL ARTS

LOWER DIVISION COURSES

3A. Mechanical Drawing.

Use and care of drafting instruments, lettering, orthographic projections, developments, intersections, tracing. Drafting room six hours per week. Required of all engineering students who have not had one full year of drafting work in senior high school.

Spring (2).

21. Descriptive Geometry.

WALLING

Fundamental principles of descriptive geometry and their application to problems of engineering. Lectures and drafting. Prerequisites: Industrial Arts 3A or equivalent, and sophomore standing.

Fall (3).

22. Machine Drawing.

WALLING

Design and drawing of simple machine parts with emphasis upon the production of standard drawings. Lectures and drafting. Prerequisite: Industrial Arts 21.

Spring (3).

23. Materials of Construction.

WALLING

Structural properties and adaptability of materials used in engineering. Lectures. Prerequisite: Sophomore standing.

Spring (2).

25. Elements of Electrical Engineering.

WALLING

Mathematical and descriptive consideration of electrical circuits together with a general survey of the electrical industry. Lectures. Prerequisite: Mathematics 4A.

Spring (3).

28. Elements of Heat Power Engineering.

WALLING

Fundamental consideration of fuels, combustion, steam, boilers, furnaces, chimneys, steam engines, steam turbines and auxiliaries, internal combustion engines. Lectures. Prerequisites: Mathematics 3B, Physics 1B. Primarily for engineering students other than mechanical or electrical.

Fall (3).

29. Elements of Radio Communication.

WALLING

Theory and characteristics of fundamental radio circuits, and of the vacuum tube as detector, amplifier, and generator of alternating current.

ower. Lectures. Prerequisites: Physics 1C, Mathematics 4A or enrollment in those courses.

Fall (3).

NOTE.—Both Industrial Arts 28 and 29 will not be given the same year. The course with the greater demand will be the one given.

JOURNALISM

Lower division preparation in journalism for advanced work and the junior certificate: History 4A-4B, or 8A-8B; Psychology 1A-4A; English composition, 4 units; Secretarial Training 2A; Political Science A-1B or Economics 1A-1B; Journalism 51A-51B. Recommended: English literature, 6 units; Speech Arts 1A-1B; Sociology 50; Economics 8A-18B; Journalism 53A-53B.

For the profession of journalism introductory work in the fields of literature, history, political science, social science, economics, the arts, etc., is recommended.

The aim in the specialized courses in journalism is to offer introductory training in the principles and practices of journalistic writing only after good foundation in correct speaking and writing of English has been laid. Practical training in news reporting and editing for student publications and for the daily press is emphasized.

LOWER DIVISION COURSES

Journalism 51A-51B. News Gathering and Reporting. DICKHAUT

Study of news sources and types; practice in news writing; newspaper organization; excursions and special lectures. Course planned for sophomores who have had English 1A-1B, with high school journalism or equivalents.

Year course (3-3).

Journalism 53A-53B. Applied Journalism. DICKHAUT

Credit earned for editorial or other staff work throughout a full semester on student publications such as *The Aztec*, *El Palenque*, *Del Sudoeste*.

Fall and Spring (1 to 3-1 to 3).

UPPER DIVISION COURSES

Journalism 100. News and Manuscript Editing. DICKHAUT

Practice in copy reading, proof reading, headline writing, and newspaper makeup. Study of editorial pages. Prerequisite: Journalism 51A-1B, or equivalent in composition.

Spring (3). (Not offered in 1935-36.)

Journalism 153A-153B. Advanced Journalism Practice. DICKHAUT

Upper division work of the same type as that in 53A-53B, but with advanced requirements.

Fall and Spring (1 to 3-1 to 3).

NOTE.—Not more than six units in all will be given for journalism practice on student publications.

MATHEMATICS

Lower division preparation for the presecondary major in mathematics and for the junior certificate: Mathematics 3A-3B, 4A-4B. With permission of the department, 7A-7B may replace 3A-3B. Recommended: Physics, surveying, descriptive geometry, astronomy and a reading knowledge of French and German.

Presecondary major (upper division): Twenty-four units of upper division work in mathematics, or 18 units in mathematics and six units in closely related subjects, arranged in consultation with the chairman of the department. Mathematics 111, 112, and 119 should be included in every major. Related courses offered by other departments include statistical methods (Economics 140), mathematics in the junior high school (Education 112), and certain upper division courses in chemistry and physics.

LOWER DIVISION COURSES

A, B, C, D, E, F, G. Introductory Mathematics.

GLEASON

Instruction and supervised study in elementary mathematics. Student who have taken these courses previously may take them for review others for the credit indicated. Courses A and D are equivalent to one and one-half years of algebra in high school; A, D and G to two years.

Students regularly enrolled in courses C, D, E, F or G shall be expected to complete at least one course for credit; except that student who begin with an extensive review may withdraw without penalty before the time of the mid-term reports.

- A. Algebra to quadratic equations (0).
- B. Plane geometry (0).
- C. Plane trigonometry (2).
- D. Algebra beyond quadratics (1).
- E. Solid geometry (2).
- F. Spherical trigonometry (1).
- G. Intermediate algebra (2).

Fall and Spring.

2. Mathematics of Investment.

WRIGHT

Interest and annuities; amortization; sinking funds; valuation of bonds depreciation; mathematics of building and loan associations; mathematics of life insurance. Prerequisites: Trigonometry and two years of algebra in high school, or equivalents.

Fall (3).

3A-3B. Analytic Geometry and Calculus.

GLEASON, WALLIN

Analytic geometry and differential calculus, together with an introduction to the integral calculus. Prerequisites: Trigonometry, plane and solid geometry, and two years of algebra in high school, or equivalent.

Year course (3-3).

4A-4B. Intermediate Calculus.

GLEASON, LIVINGSTON

Integration, partial differentiation, infinite series and introduction to differential equations. Prerequisite: Mathematics 3A-3B, or a high grade in 7A-7B.

Year course (3-3).

7A-7B. Introduction to Analysis.

LIVINGSTON

Trigonometry, analytic geometry, differential calculus, introduction to integral calculus. Prerequisites: Plane geometry and two years of high school algebra, or equivalents.

Year course (4-4).

10. Appreciation and History of Mathematics.

THE STAFF

Recreational reading in the history and philosophy of mathematics. Spring (1). (Not offered in 1935-1936.)

19. Foundations of Arithmetic.

GLEASON

A connected idea of the subject of arithmetic. Beginning with counting, the number system is developed and the four fundamental operations extended accordingly. Applications are made in the fields of commerce and science. Prerequisite: Sophomore standing.

Spring (2).

UPPER DIVISION COURSES

102. Elementary Algebra for Advanced Students.

GLEASON

Selected topics viewed from the standpoint of higher mathematics. Prerequisites: Introductory courses in analytic geometry and calculus.

Fall (3). (Not offered in 1935-1936.)

104. History of Mathematics.

GLEASON

A nontechnical course open to students who have some knowledge of the fundamental ideas of mathematics.

Fall (3).

105. Modern Geometry.

LIVINGSTON

The geometry of the circle and the triangle. Prerequisite: Mathematics 3A-3B or 7A-7B.

Fall (3).

106. Projective Geometry.

LIVINGSTON

The construction and study of conic sections by means of perspectives, poles and polars, and involutions. Prerequisite: Mathematics 105, or permission of the instructor.

Spring (3).

111. Theory of Equations.

LIVINGSTON

General solutions of algebraic equations; approximate numerical solutions; applications. Prerequisite: Mathematics 3A-3B or 7A-7B.

Fall (3). (Not offered in 1935-1936.)

112. Analytic Geometry of Space.

LIVINGSTON

Planes, lines, and quadric surfaces. Prerequisite: Mathematics 111, or permission of the instructor.

Spring (3). (Not offered in 1935-1936.)

119. Differential Equations.

GLEASON

Ordinary differential equations of first and second order, with applications. Prerequisite: Mathematics 4B or permission of instructor.

Spring (3).

124. Vector Analysis.

GLEASON

Vector analysis and allied topics with applications to geometry and mechanics. Prerequisite: Mathematics 4B, or permission of instructor

Spring (3). (Not offered in 1935-1936.)

MUSIC

Candidates for a teaching credential in music should refer to the statement "Admission to Upper Division Teacher Training" on page 28 and to the other degree requirements on that page and those following.

Lower division preparation for the presecondary major in music and for the junior certificate: Music 1A-1B, 2A-2B, 4A-4B, and two units of electives in music. The electives in both lower and upper division must include at least six units in Applied Music (study of voice, or an instrument), of which at least three units must be in piano. Upper division credit will not be given for beginning work in Applied Music. (For restrictions on applied courses, see page 50.)

Presecondary major (upper division): Music 103A-103B, 105A-105B, 107A-107B, 108, and 12 units of upper division elective courses in music. (See statement concerning Applied Music under lower division requirements.)

For information regarding majors and minors in music, and other details not found here, consult the Music Education Adviser.

LOWER DIVISION COURSES

1A. Music Reading and Ear Training—Fundamentals of Music.

BEIDLEMAN, L. D. SMITH, SPRINGSTON

Elementary music theory; scale construction; drill in music reading both with syllables and with words; ear training, elementary music dictation; the elements and materials of music. Basic course used as prerequisite for all advanced music work and for the courses in music education. Text—Gehrken: Fundamentals of Music.

Fall and Spring (2).

1B. Music Reading and Ear Training.

L. D. SMITH

Tonal and rhythmic dictation, rhythmic writing, sight singing with Latin syllables and with words. Text—Wedge: Ear Training and Sight Singing. Prerequisite: Music 1A, or the equivalent.

Spring (2).

1C-1D. Advanced Music Reading and Ear Training.

L. D. SMITH

Tonal and rhythmic dictation, rhythmic writing, and sight singing in two and three parts. Text—Wedge: Advanced Ear Training and Sight Singing. Prerequisite: Music 1A-1B.

Year course (2-2).

1E. Advanced Music Reading and Ear Training. L. D. SMITH

Advanced tonal and rhythmic dictation, rhythmic writing, and sight singing in two, three, and four parts. Prerequisite: Music 1C-1D.

Fall (2). (Offered in odd-numbered years.)

2A-2B. Appreciation and History of Music. SPRINGSTON

How and of what music is made. How to listen to, enjoy, and appreciate it. The development of music from the earliest times, with a particular effort to gain some acquaintance with the music of the various periods and composers by listening to examples of it. Illustrated with numerous phonograph records. A general fundamental, and nontechnical course, requiring no previous musical training or background.

Year course (2-2).

4A-4B. Elementary Harmony. SPRINGSTON

Scale construction, intervals, chords, structure, modulation, through various types of seventh chord. Especial attention is paid to the keyboard application of problems in harmonization, transposition, and modulation. Prerequisites: Music 1A, or the equivalent, and at least one year of piano study.

Year course (3-3).

19. Instrumental Ensemble. BEIDLEMAN

The practice and performance of music for small groups of string, wind, and brass instruments.

Fall and Spring ($\frac{1}{2}$).

20. Vocal Ensemble and Chorus. L. D. SMITH

A general course open to all students but one which may be offered by music students toward satisfying the requirement in vocal ensemble. Mixed harmony in two, three, and four parts; voice quality; phrasing, interpretation, and enunciation considered in detail; study of song material suitable for junior and senior high school.

Fall and Spring (1).

UPPER DIVISION COURSES

103A-103B. Appreciation and History of Music—Great Music.

SPRINGSTON

Study of the great masterpieces of music in the larger forms, by means of phonograph records and scores. Prerequisite: Music 2A-2B, or 4A-4B, or equivalent.

Year course. (1-1).

105A-105B. Advanced Harmony. BEIDLEMAN

Completion of harmonic theory; modulation, inharmonic tones, etc. Continuation of harmonic analysis, and keyboard harmony. Melody writing. Prerequisite: Music 4A-4B.

Year course (3-3).

107A. Conducting.

BEIDLEMAN

The technique of the baton. Methods and materials for use in directing choral organizations. Prerequisite: Music 1A-1B, or 4A-4B.

Fall (1).

107B. Conducting (Instrumental).

BEIDLEMAN

Theory and practice of instrumental conducting, with study of materials and methods. Taught in conjunction with, and requiring participation in, Instrumental Ensemble (Music 119). Prerequisite: Music 107A.

Fall and Spring (1).

108. Instrumentation.

BEIDLEMAN

Theory and practice of arranging music for instrumental combinations. Prerequisite: Music 4A-4B.

Spring (2).

110A-110B. Piano Class Principles.

SPRINGSTON

Materials and methods used in piano classes in the elementary schools. Prerequisite: At least two years of piano study.

Year course (1-1), beginning either semester.

119. Instrumental Ensemble.

BEIDLEMAN

(See Music 19.)

120. Vocal Ensemble and Chorus.

L. D. SMITH

(See Music 20.)

MUSICAL ORGANIZATIONS

11 or 111. Treble Clef (Women's) Glee Club.

L. D. SMITH

Membership based on competitive try-outs.
(1-1).

12 or 112. Men's Glee Club.

BEIDLEMAN

Membership based on competitive try-outs.
(1-1).

13 or 113. Orchestra.

BEIDLEMAN

(1-1).

14 or 114. Band.

BEIDLEMAN

(1).

Applied Music.

Credit for applied music is available only for students enrolled in music classes or organizations, and is subject to special permission and arrangement.

15 or 115. Stringed Instruments.

16 or 116. Wind Instruments.

or 117. Voice.

or 118. Piano (Organ).

PHILOSOPHY

LOWER DIVISION COURSES

1. Introduction to Philosophy.

STEINMETZ

Elementary orientation; the persistent problems of philosophy, especially in epistemology, metaphysics, and ethics; the Republic of Plato, and social systems. Prerequisite: Sophomore standing or consent of instructor.

Fall (3).

3. The Philosophy of Science.

STEINMETZ

The problems of philosophy systematized according to the main modern visions of science; the achievements and perplexities of scientific fields; the nature and place of values in a universe of facts. Prerequisite: Philosophy 5A, except that sophomores planning to major in natural science may be admitted without prerequisite.

Spring (3).

UPPER DIVISION COURSES

5B. The Philosophy of Science.

STEINMETZ

Same as Philosophy 5B, save that upper division students will be held more exacting contribution.

Spring (3).

10. Logic, and Philosophy of Mind.

STEINMETZ

Formal and functional logic; examination of reflective procedures in various fields; epistemological assumptions and traditional viewpoints, especially as illustrated in recent scientific writings; review of some psychological, experimentally supported explanations of thought. Prerequisites: Psychology 1A and Philosophy 5A.

Spring (3). (Offered in even-numbered years.)

PHYSICAL EDUCATION

Men's Department

Candidates for a teaching credential in physical education should refer to the statement "Admission to Upper Division Teacher Training" on page 28.

LOWER DIVISION COURSES

A two-hour activity course each semester is required for the two years of lower division. A medical examination is given each student when entering and the work is fitted, as far as possible, to his needs. The content of the required two years is planned to give each student fundamental training in those sports which have carry-over value into after

life. Opportunity is given all students to take part in the regular competitive sports program.

1A-1B. Freshman activity.

Year course, beginning either Fall or Spring ($\frac{1}{2}$ - $\frac{1}{2}$).

1C-1D. Sophomore activity.

Year course, beginning either Fall or Spring ($\frac{1}{2}$ - $\frac{1}{2}$).

Class sections are so arranged that the student may choose the activity he is most desirous of learning. Fundamentals of the sports listed are taught during the class hour. Each student must choose different activities for three of the four semesters required.

2A or B. Golf. Spring ($\frac{1}{2}$).

3A or B. Track. Spring ($\frac{1}{2}$).

4A or B. Baseball. Spring ($\frac{1}{2}$).

5A or B. Basketball. Spring ($\frac{1}{2}$).

6A or B. Tennis. Fall and Spring ($\frac{1}{2}$).

7A or B. Boxing. Fall and Spring ($\frac{1}{2}$).

8A or B. Wrestling. Fall and Spring ($\frac{1}{2}$).

9A or B. Fall Track. Fall ($\frac{1}{2}$).

10A or B. Swimming. Spring ($\frac{1}{2}$).

11A or B or C. Fencing. Fall and Spring ($\frac{1}{2}$).

13A or B or C or D. American Football. Fall ($\frac{1}{2}$).

14A or B. Gymnastics. Spring ($\frac{1}{2}$).

The following courses fulfill degree requirements for physical education majors and meet state requirements for teaching credentials in physical education.

54. Administration of Physical Education.

GRO

The problems that arise in the everyday experience of the instructor in physical education, such as policies in administration, classification of students, administration of activities, organization of the leadership of students, arrangement and care of the physical equipment, personal relationships with students, interdepartmental adjustments, rolls, records and reports. Material presented in latest State Department Manual used as basis.

Fall and Spring (2).

62A. Gymnastic Activities.

C. E. PETERS

Theoretical and practical work in marching, free exercises, and light and heavy apparatus. Emphasis on progression and method of presenting material. The simplest and most explanatory terminology. Prerequisite: Sophomore standing.

Fall (2). (Offered in odd-numbered years.)

2B. Gymnastic Activities.

C. E. PETERSON

Acquisition of proficiency in the performance of a great group of gymnastic stunts always popular in the gymnasium and on the playground. Work of the recreational or self-interesting type rather than the formal. Tumbling, stunts, and pyramid-building given chief attention, although games of low organization are also considered. Prerequisite: Sophomore standing.

Spring (2). (Offered in even-numbered years).

UPPER DIVISION COURSES

01. Emergencies.

C. E. PETERSON

The accepted procedure in meeting the emergencies which daily arise in schoolroom, play or athletic field, beach, mountains, or any of the many places where the physical director is called on for first aid. Special attention given to the arrangement of the apparatus and the activities so that many of the most common accidents are prevented or minimized.

Fall (1).

51. Health Education.

(See Women's Department.)

Fall and Spring (2).

55. Applied Anatomy.

C. E. PETERSON

Mechanics of the human skeletal and muscular-systems and their actions in games, formalized activities, and general body movements; mechanical strength and durability as influenced by anatomical factors.

Spring (2). (Offered in odd-numbered years).

56A. Sports Methods.

C. E. PETERSON AND STAFF

Different theories and methods of teaching the more highly organized sports: baseball, basketball, tennis, and track.

Fall (2). (Offered in even-numbered years.)

56B. Sports Methods.

C. E. PETERSON AND STAFF

Methods of teaching those sports most adaptable to intramural and interclass competition: golf, handball, soccer, speedball, and volley ball.

Spring (2). (Offered in odd-numbered years.)

66. Technique of Officiating.

GROSS

Methods of officiating all the sports common to the school or college program; also methods of training student officials. Practice in the handling of elementary, junior high, high school, and interclass college competition.

Spring (2).

69. Technique of Teaching Activities. PHYSICAL EDUCATION STAFF

Directed leadership in activities. A course preliminary to practice teaching in which students are given opportunity to develop leadership and teaching technique.

Spring and Fall (1½ or 3).

171. Community Recreation.

C. E. PETERSON

Planned to meet the needs of the various workers in community playground systems apart from schools, as well as the needs of directors of play and recreation in social service institutions, industrial plants, shops and factories. Special attention given to scout and campercraft.

Spring (2). (Offered in even-numbered years.)

172. Principles of Physical Education.

HERRETI

The material which seeks to establish the place of physical education and to indicate its indispensable character in modern life.

Fall (2). (Offered in even-numbered years.)

179. Physical Education Tests and Measurements.

(2).

180. American Football.

Theory and practice of individual and team play. Each student taught the fundamentals of football. Two hours of lecture and three hours of laboratory.

Spring (1).

PHYSICAL EDUCATION

WOMEN'S DEPARTMENT

Candidates for a teaching credential in physical education should refer to the statement "Admission to Upper Division Teaching Training" on page 28.

LOWER DIVISION COURSES

All new students are given a medical examination to the end that the physical needs of each student may be determined and her work planned accordingly. Two hours weekly of directed physical activity are required in freshman and sophomore years. Emphasis is upon rhythmic activities, games, and sports. In order to meet this requirement, students taking the curriculum leading to the A.B. degree with an elementary credential must take Physical Education 36A-36B, 37, and 38B. Those seeking the junior certificate or the degree in any of the presecondary curricula or the degree with the junior high school credential or with a special credential in art, commerce, or music, are required to take Physical Education 36A-36B, 38A-38B.

36A. Rhythmics, Formalized Activities, Games.

SCHW

For first semester freshmen.

Fall and Spring ($\frac{1}{2}$).

36B. Athletic Games.

SHAFF

For second semester freshmen.

Fall and Spring ($\frac{1}{2}$).

37. Game and Play Activities for the Elementary School.

TANNE

Prerequisite: Physical Education 36A-36B.

Fall and Spring ($\frac{1}{2}$).

38A and 38B. Recreational Activities.

SCHWOB, SHAFER

For sophomores. Prerequisites: Physical Education 36A, 36B.

Fall and Spring ($\frac{1}{2}$ each).

3. Physical Education in the Elementary School.

TANNER

Physical education problems, administration of tests, methods of classifying children for play activities, developing leaders, and carrying on intramural ideals. Particular attention given posture problems. The content of the state program in physical education forms the basis of the course. Prerequisite: Physical Education 37 must precede or accompany.

Fall and Spring (2).

SPORTS

1. Women not majoring in physical education may earn upper division credit in Physical Education 55, 56, 57, or 59 by special permission of the department director.

2. The Individual and Dual Sports swimming, tennis, golf and archery are offered throughout the year. Women majoring in physical education elect *one* Individual or Dual Sport as a major activity and two others as minors. Skills in the sports thus selected must be maintained as prerequisite to the senior course, Physical Education 185. (See page 111.)

3. The Seasonal Group Sports are volley ball, basketball, hockey, speedball or soccer, baseball and track and field activities. Majors participate in at least *two seasons* of each.

5. Swimming.

SHAFER

A. Beginning ($\frac{1}{2}$).

B. Intermediate ($\frac{1}{2}$), or

C. Life Saving (1).

55A and 55B or 55C are required of freshmen women majoring in physical education.

6. Tennis.

SHAFER, SCHWOB

Required of sophomore women majoring in physical education.

($\frac{1}{2}$).

7. Golf.

TANNER, SUPERVISING

Required of women majoring in physical education.

($\frac{1}{2}$).

9. Archery.

SHAFER

Required of women majoring in physical education.

($\frac{1}{2}$).

UPPER DIVISION COURSES

02. Emergency and Safety Programs.

Means by which the number of accidents, especially among children, may be reduced on street, playground, or at home; practical application of first aid methods. Of value to classroom teachers as well as to specialists in physical education.

(1).

151. Health Education.

TANNER

A course for teacher-training students which includes the study of the diseases, common physical defects, and health indices of school children; the detection and control of communicable diseases which may appear in the school; and the elements which underlie a health education program. Methods of presenting personal and group health to children of different ages. Hygiene of the schoolroom, such as seating, lighting, and ventilation.

Fall and Spring (2).

153. Administration of Secondary Physical Education.

TANNER

Study of department organization and procedures with practical experience in administration. The college department and like departments in high schools serve as laboratories. Open only to seniors majoring in physical education.

(2).

154. Applied Anatomy.

TANNER

A study of the movements of the human body with especial reference to the physical activities and capacities of girls and women.

(2).

157A-157B. Sports Methods.

Practice for skill, study of rules, and of coaching methods. Prerequisite: A season's experience in at least four of the following sports—volleyball, basketball, hockey, speedball, soccer, baseball, tennis, and track activities.

Year course (2-2).

158. Stunts and Tumbling.

A practical course in personal technique. Progressive series of individual, dual, and group stunts, including simple pyramids.

($\frac{1}{2}$).

160. Formalized Activities.

SCHWOB, TANNER

The scientific adaptation of formalized exercises to individuals and to groups; an activity and methods class with opportunity for supervised practice teaching; elementary exercises on apparatus.

(2).

161. Folk Dancing.

SCHWOB

A series of folk and national dances for elementary and junior high schools. Emphasis placed on methods of presentation as well as upon ability to execute the various dances. Note books required.

(2).

164. Dance Activities.

SCHWOB

A course introductory to dramatic expression; interpretative, character and tap dancing, particularly adapted to elementary and junior high schools.

(2).

. Technique of Teaching Activities. PHYSICAL EDUCATION STAFF

Observation, lesson planning, and teaching of college classes.

Fall and Spring (3).

. Recreational Leadership.

TANNER AND STAFF

Fundamentals of recreational leadership developed by instruction in out craft, Camp Fire lore, Girl Reserve activities, the study of school recreational needs and facilities, and of civic recreation.

2).

. Principles of Physical Education.

TANNER

The relation of physical education to other phases of education, with emphasis upon health and social adaptation.

2).

. Campcraft.

PHYSICAL EDUCATION STAFF

Life in open camp preceded by study of selection of equipment, proper packing clothes, tents, making beds in the open, making camp fires, camp cooking, and camp recreations. Enrollment only by permission of the instructor.

2).

. Current Problems in Physical Education.

TANNER

The latest phases of general physical education; problems particularly related to the work with younger children, girls, and college women; the responsibility of the physical instructor toward emergencies and health service. Open only to seniors majoring in physical education.

2).

. Individual Program Adaptations.

TANNER

Adjustments of the physical education program to the physical needs and capacities of individuals; problems concerning protective and preventive measures which are not highly specialized corrective phases.

2).

A-178B. Camp Fire and Girl Scout Leadership.

The principles and procedures fundamental to leadership in these two important organizations for girls taught by authorized local directors. Open to college women interested in recreational aspects of social service. Enrollment to all students.

. Camp Fire Leadership (1).

. Girl Scout Leadership (1).

. Technique of Individual and Dual Sports.

PHYSICAL EDUCATION STAFF

Course summarizing rules, teaching methods, and individual playing ability. A required senior course. Cannot be taken until all requirements regarding sports have been fulfilled. (See page 109.)

3).

PHYSICAL SCIENCE

1. Introductory.

A survey course dealing with the nature of man's physical universe. The subject matter covered includes work in fields of astronomy, chemistry, geology and physics; chosen to provide a background for present-day physical science thought. Not open to students who have taken high school or college physics and chemistry or three courses in high school or college physical science including either physics or chemistry.

Fall and Spring (3).

PHYSICS

Lower division preparation for the presecondary major in physics and for the junior certificate: Physics 1A-1B-1C-1D; Chemistry 1A-1B; Mathematics 3A-3B and 4A-4B, or their equivalents. Recommended: reading knowledge of French and German.

Presecondary major (upper division) in physics, required: Twenty-four units of upper division work in physics including Physics 105A-105B and 107A-107B. Six of the twenty-four units may be elected in related subjects on consultation with the chairman of the department.

For requirements for presecondary major in physical science, see pages 51, 54.

LOWER DIVISION COURSES

1A-1B. General.

Mechanics, properties of matter, and heat. A development of fundamental ideas which underlie the subject of physics, and the application of them in the discussion of practical problems. Lectures, assignments, problem sets, and experimental laboratory work. Two lectures, and one laboratory period each week. Prerequisites: High school physics or chemistry and trigonometry.

Year course (3-3).

1C-1D. General.

A continuation of Physics 1A-1B for students in the sophomore year including magnetism, electricity, sound, and light. Two lectures and one laboratory period each week.

Year course (3-3).

2A-2B. General.

Properties of matter, mechanics, heat, sound, light, electricity, and magnetism. A nonengineering course. Lectures, demonstrations, and discussions. Prerequisite: Two years of high school mathematics.

Year course (3-3).

3A-3B. Physical Measurements.

Laboratory work in mechanics, properties of matter, heat, sound, light, electricity, and magnetism. Usually taken in conjunction with Physics 2A-2B.

Year course (1-1).

UPPER DIVISION COURSES

105A-105B. Analytical Mechanics.

MOE

Treatment of fundamental principles of statics, kinematics and dynamics of particles and rigid bodies. Prerequisites: Physics 1A-1B or 2A-2B and a working knowledge of calculus.

Year course (3-3). (Offered in even-numbered years.)

106. Optics.

BAIRD

Refraction, color, interference, diffraction, polarization, radiation, and optical instruments.

Fall (3). (Offered in even-numbered years.)

107A-107B. Electrical Measurements.

BAIRD

Devoted mainly to the study of potentiometer methods, capacity, inductance, resistance, and magnetic flux. Two lectures and one laboratory period each week. Prerequisite: Eight units in physics.

Year course (3-3). (Offered in odd-numbered years.)

108. Modern.

BAIRD

An introductory survey of the problems of modern physics. Theories of atomic structure and series in optical spectra, radioactivity, conduction of electricity through gases, radiation and the quantum theory. Prerequisite: Eight units in physics.

Spring (3). (Offered in odd-numbered years.)

112. Advanced Heat.

MOE

Thermal properties of matter. An introduction to the kinetic theory of gases and the laws of thermodynamics. Prerequisites: Eight units in physics and a working knowledge of calculus.

Spring (3). (Offered in even-numbered years.)

114. Wave Motion and Sound.

A study of wave motion and its applications to sound production and transmission. The principles of musical instruments and architectural acoustics.

Prerequisite: Eight units in physics.

Fall (3). (Offered in odd-numbered years.)

199. Special Study.

BAIRD, MOE

Reading or work on special problems in physics. Admission by consent of the instructor. Credit and hours to be arranged in each case. Open to students who have completed at least eight units of work in the department with grade of A or B.

Fall and Spring (1 or 2—1 or 2).

POLITICAL SCIENCE

Lower division preparation in political science for advanced work and for the junior certificate: Political Science 1A-1B and Economics 1A-1B or History 4A-4B or Geography 1 and 2. High school civics is presupposed in the following courses:

LOWER DIVISION COURSES

1A-1B. Comparative Government.

LEONARD

A comparative study of typical European governments and the government of the United States. Semester I: England, France, Germany, Italy and Switzerland. Semester II: The lesser European states and the United States.

Year course (3-3).

UPPER DIVISION COURSES

101. American Institutions.

LEONARD

Origins and principles of the United States Constitution, and a survey of the political institutions which have developed under it.

Prescribed by the State law for all candidates for the bachelor's degree. Enrollment is limited to juniors and seniors, except with the consent of the instructor. Attention is called to the fact that this course is offered only during the Fall semester.

Fall (2).

111. Theory of the State.

LEONARD

The nature of the State, its organization and activities, and its relation to individuals and to other states.

Fall (3). (Not offered in 1935-1936.)

113. American Political Ideals.

LEONARD

Underlying theories and principles of American governmental policy.

Spring (3). (Not offered in 1935-1936.)

151. Governmental Organization in the United States.

LEONARD

Origins; the federal system; organization, powers and functions of the executive, legislative, and judicial branches of the National government and expansion of its activities; the party system.

Fall (3).

152. Popular Government in the United States.

LEONARD

Development of the means for democratic control of government in the United States: the history, motivation, methods and control of political parties; party machines; election systems; influence of minority groups; the lobby; the press.

Spring (3).

PSYCHOLOGY

Lower division preparation in psychology for advanced work and the junior certificate. Required: Psychology 1A-1B, Zoology 1A-1B, or Biological Science 10A-10B, Philosophy 5A-5B. Recommended: French, German, chemistry, physics, and anthropology.

LOWER DIVISION COURSES

1A. General.

BELL, STEINMETZ

An elementary survey of normal adult psychology, focused upon personality; the subjective and objective aspects of behavior; use of a workbook assures individual participation and contribution. Furnishes basis for all other courses in psychology. Prerequisite: Sophomore standing.

Fall and Spring (3).

1B. General.

BELL, STEINMETZ

A continuation of general psychology designed to familiarize the student with (1) elementary experimental methods, (2) famous experiments in psychology, and (3) some one topic (not included in upper division courses) in which he pursues an independent experimental approach. Prerequisite: Psychology 1A.

Spring (3).

1A. Applied.

BELL

Applications of psychology to problems of the individual in learning, making social adjustments, choosing a vocation, developing desirable personality traits, and achieving success and happiness. Survey of psychology as applied in business, education, music, art, speaking, writing, and in the professions. Prerequisite: Psychology 1A. Recommended: Psychology 1B.

Fall (2).

1B. Psychology Applied in Business.

BELL

Applications of psychology to a wide range of problems encountered by the man in business. Motives, attitudes, habits, and traits in their relation to behavior of employer, employee, and executive. Advertising, salesmanship, and problems of selecting, placing and increasing the efficiency of employees. Business cycles, and business research. Prerequisite: Psychology 1A. Recommended: Psychology 1B.

Spring (2).

UPPER DIVISION COURSES

102. Genetic (Growth and Development of the Child).

BELL, STEINMETZ

The mental and physical growth and development of the child, especially with relation to norms of structure and function. Diagnosis of individual children by comparison with norms. Behavior problems and the growth of personality traits as conditioned by physical and mental factors. An intensive study of one child presenting a problem of physical or mental maladjustment made by each student. Prerequisite: Psychology 1A. Recommended: Psychology 1B.

Fall and Spring (3).

105. Mental Testing.

BELL

A brief history of intelligence testing and the fundamental assumptions underlying the construction of tests. The Stanford revision of the Binet-Simon test illustrated by demonstrations. Each student required to give at least 20 individual tests. Group intelligence tests discussed

and demonstrated. Prerequisites: Psychology 1A and Education 108. Recommended: Psychology 1B, 102, Education 140.

Fall (3).

118. Mental Hygiene.

BELL

Designed primarily for teachers, nurses, physicians and social workers.

Problems, personality adjustment, emotional problems, attitudes, conflicts, neurotic behavior, conduct disorders of both child and adult.

The beginnings of undesirable attitudes and habits and methods of treating them are stressed more than serious cases of maladjustment which are either incurable or problems for a psychiatrist. The methods of building wholesome personality are emphasized more than the analysis of extreme disorders. Prerequisite: Psychology 1A. Recommended: Psychology 1B, 102.

Fall (2).

120. History of Psychology.

BELL, STEINMETZ

Historical development of psychology out of mental philosophy; sensationism; the body-mind problem; associationism; structuralism; functionalism; rise of the schools and experimental procedures. Prerequisites: Psychology 1A, 1B.

Fall (2). (Offered in even-numbered years.)

140. Contemporary Psychology.

STEINMETZ

Psychoanalysis, behaviorism, and Gestalt psychology; the modern eclectic viewpoint; non-Aristotelian speculation; factor analysis; characteristic British, French, German, and American contributions; outstanding problems, publications and fields. Prerequisites: Psychology 1A, 1B, 120, or other upper division work in the department provided instructor and head of the department consent.

Spring (2). (Offered in odd-numbered years.)

145. Social.

BELL

Personality as it develops in relation to social environment. Suggestion, imitation, leadership, the crowd, public opinion, social control, prejudice, propaganda, sex differences, race differences, etc. Prerequisite: Psychology 1A. Recommended: Psychology 4B.

Spring (3). (Offered in odd-numbered years.)

Educational Psychology. See Education 130.

Educational Measurements. See Education 108.*

SPANISH

(See Foreign Languages)

SPEECH ARTS

(See English)

* Students taking a curriculum in which Education 108 is required must substitute another three-unit course in education, if they wish to count Education 108 in a psychology minor.

SURVEYING

LOWER DIVISION COURSES

A-1B. Plane Surveying.

GLEASON

Use and adjustment of surveying instruments, computations and map-making, together with a study of land, topographic, city, and mine surveying. Two instruction periods and one three-hour period for field work and mapping each week. Prerequisites: Trigonometry and Industrial Arts 3A, or equivalent, and sophomore standing.

Year course (3-3).

Summer Class in Surveying.

Practical field problems in reconnaissance, triangulation, location and topographic surveys. Observations for meridian, time and latitude. Precise work in linear and angular measurements. Development of self-reliance, accuracy, and professional skill on the part of the student. Four weeks course held in the mountains near San Diego. For details regarding location of camp, date of registration, date of opening, and other arrangements, a special announcement of the surveying camp may be secured at the Registrar's Office. Prerequisite: Surveying 1A-1B.

Summer (3).

ZOOLOGY

(See Biological Sciences)

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Bulletin
San Diego State College
AND
Announcement of Courses
1936-1937



June, 1936

CALIFORNIA STATE PRINTING OFFICE
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SACRAMENTO, 1936

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San Diego State College

Volume Twenty-four

JUNE, 1936

No. 2

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Published Quarterly by the San Diego State College
SAN DIEGO, CALIFORNIA

CALENDAR 1936-1937

SUMMER SESSIONS, 1936.

Term I, six weeks, June 22-July 31.

Term II, three weeks, August 3-August 22.

FALL SEMESTER, 1936-1937.

September 10, 8:30 a.m., Examination in Subject A (English Composition).

11:00 a.m., Assembly of New Students (Attendance Required).

September 11, 8:30 a.m., Fundamentals Test.
1:00 p.m., College Aptitude Test.

September 14, 8:00-12:00 a.m., and 1:00-2:00 p.m. Registration of Old Students (including Payment of Fees by Students Who Preregistered).

September 15, 8:00-12:00 a.m., and 1:00-2:00 p.m. Registration of Entering Freshmen, New Students with Advanced Standing, and Returning Students.

September 16, Class Work Begins. Late registration fee become effective.

November 11, Armistice Day Holiday.

November 26-29, Thanksgiving Recess.

December 19, Christmas Recess Begins.

January 4, Class Work Resumes.

January 28-February 4, Mid-Year Examinations.

SPRING SEMESTER, 1937.

February 8, 8:30 a.m., Examination in Subject A (English Composition).

11:00 a.m., Assembly of New Students (Attendance Required).

February 9, 8:30 a.m., College Aptitude Test.
1:00 p.m., Fundamentals Test.

February 9, 8:00-12:00 a.m., and 1:00-2:00 p.m. Registration of Old Students.

February 10, 8:00-12:00 a.m., and 1:00-2:00 p.m. Registration of Old Students.

February 10, 1:00-3:00 p.m., Registration of Entering Freshmen,
New Students with Advanced Standing, and
Returning Students.

February 11, Class Work Begins. Late registration fee
becomes effective.

March 20-28, Easter Recess.

April 25, Open House.

May 1, Founders' Day.

May 31, Memorial Day Holiday.

June 10-17, Final Examinations.

June 18, Annual Commencement Exercises.

SUMMER SESSION, 1937.

June 28-August 6.

FACULTY

For the Year 1935-1936

WALTER R. HEPNER, A.M.—President.

A.B., A.M., University of Southern California.

Graduate student, University of Chicago and University of California.

Instructor, La Verne College; High School Teacher: Chicago, Illinois; Long Beach and Oxnard, California. Vice-Principal; Principal, Fresno High School; Assistant Superintendent; Superintendent of Schools, Fresno; Superintendent of Schools, San Diego. Summer Session and extension instruction: State Colleges of Fresno, San Jose, and San Diego; Claremont Colleges; Stanford University; University of California at Los Angeles. Chief, Division of Secondary Education, California State Department of Education. (Appointed September, 1935.)

IRVING E. OUTCALT, M.A.—Vice President and Professor of English.

A.B., M.A., Stanford University.

Student, University of Illinois; graduate study and research work, Stanford University. Travel in Europe.

Head of Department of English, San Diego High School.

(Appointed September, 1912)

W. AULT, M.A.—Dean and Professor of Education.

B.S., Valparaiso University; M.A., University of South Dakota.

Student, Miami University; graduate student, University of Iowa and University of Southern California.

Superintendent of city schools; conductor and instructor in teachers institutes; Professor of Education at Southern State Teachers College, Springfield, South Dakota.

(Appointed September, 1925.)

ARTHUR G. PETERSON, M.A.—Dean of Liberal Arts, ex officio in general charge of Lower Division studies, and Professor of Economics.

A.B., College of Pacific; M.A., Stanford University.

Graduate student, University of Southern California.

Vice Principal of San Diego High School and Director of Junior College.

(Appointed September, 1921.)

CHARLES E. PETERSON, A.B.—Dean of Men and Associate Professor of Physical Education and Director of Physical Education for Men.

A.B., San Diego State College.

Student, Oregon Agricultural College and University of California.

Graduate student, Claremont Colleges.

Director of Playgrounds, Portland, Oregon; Director of Physical Education, Y. M. C. A.; Physical Education and Recreation work in the United States Army Camps; Director of Physical Education in Junior High School, Berkeley, California. (Appointed July, 1921.)

MARY IRWIN McMULLEN, A.B.—Dean of Women and Placement Secretary and Associate Professor of Educational Guidance.

A.B., San Diego State College.

Graduate student, University of Chicago, and Stanford University.

Public school teacher, Oakland, California.

(Appointed Secretary to the President July, 1926; Director of Placement July, 1930; Dean of Women January, 1934.)

JOHN R. ADAMS, M.A.—Associate Professor of English.

A.B., M.A., University of Michigan.

Graduate student, University of Southern California.

Instructor in Rhetoric, University of Michigan; Associate in English, University of Washington. (Appointed September, 1928.)

GEORGIA C. AMSDEN—Associate Professor of Commerce.

Gregg School, Chicago; special secretarial training in various institutions; University of California summer session and extension division work.

Teacher in University of California summer school; Traveling Representative and Secretary for the Federal Board for Vocational Education, France, World War; in charge of Stenographic Division, Department of Personnel, American Red Cross Headquarters, Paris, World War; Secretary, Standard Life and Accident Insurance Company, Detroit, Michigan; Assistant Editor and Reporter, Daily Press, Ypsilanti, Michigan; Instructor, San Diego High School.

(Appointed September, 1925.)

GUINIVERE KOTTER BACON, M.A.—Training Supervisor and Associate Professor of Education.

B.S., Utah Agricultural College; M.A., Stanford University.

Graduate student, Stanford University; University of California Teachers College, Columbia University.

Teacher in Public Schools; Primary Supervisor.

(Appointed July, 1928.)

O. W. BAIRD, M.A.—Professor of Physics.

A.B., University of Wisconsin; M.A., University of California.

Graduate student, University of Minnesota.

Head of Science Department, University of Wisconsin High School and Stadium High School, Tacoma, Washington; Assistant in Physics Department, University of Washington, Seattle.

(Appointed September, 1921.)

FRED BEIDLEMAN, B.Mus.—Associate Professor of Music.

B.S., B.Mus., Columbia University.

National Music Camp, Interlochen, Michigan, 1933.

Teacher of Music, Boys High School, Brooklyn, N. Y.; Instructor Columbia University; Head of Violin Department, University of Illinois; Assistant Professor of Music, University of North Dakota; Professor of Music and Director of the Conservatory, College of Puget Sound, Tacoma, Washington.

(Appointed September, 1927.)

GERTRUDE SUMPTION BELL, M.A.—Professor of Psychology.

A.B., Indiana University; M.A., Stanford University.

Graduate, Indiana State Normal School; Research Work, Clark University. Travel in Europe.

Assistant in Education and Director of Practice Teaching, University of Colorado; State Institute Lecturer, Montana; Instructor School of Education, Indiana University. (Appointed August, 1916.)

MARJORIE KELLY BORSUM, M.A.—Assistant Professor of Art.

B.E., University of California at Los Angeles; M.A., University of Southern California.

Pupil in Paris of Andre Lhote, Painter, and of Mme. Alexander, Russian Stage Designer.

Instructor in Fine Art, Pasadena Junior High School.

(Appointed September, 1927.)

BAYLOR BROOKS, B.A.—Assistant Professor of Geology.

B.A., Stanford University.

Graduate student, University of Arizona; Harvard University; Oxford University; Stanford University. Travel in Europe.

Member of staff, Yosemite Field School of Natural History; Summer Lecturer, National Park Service, Yellowstone and Yosemite.

(Appointed September, 1931.)

ELIZABETH McPIKE BROWN, PH.D.—Assistant Professor of French.

Ph.B., M.A., Ph.D., University of Chicago.

Diplôme de Phonétique, Ecole des Hautes Etudes, Paris, France; Certificate d' Etudes Francaises, University of Paris.

Assistant in French, University of Chicago; Head of French Department, Rockford College, Rockford, Illinois; Instructor in University of California, Extension Division, San Diego.

LESLIE P. BROWN, PH.D.—Professor of French and Spanish.

A.B., Yale University; M.A., Harvard University; Ph.D., University of Southern California.

Instructor in French and Spanish, Northwestern University; Harvard University; University of North Carolina; University of Chicago.

(Appointed July, 1922.)

LEO BLAKELY CALLAND, M.S.—Assistant Professor of Physical Education.

A.B., University of Southern California; M.S., University of Idaho.

Graduate student, University of Southern California.

Director of Athletics, Page Military Academy, Los Angeles; Freshman Coach, University of Southern California; Director of Athletics and Physical Education, Football and Basketball Coach, Whittier College; Director of Intramural Athletics, Freshman Football and Varsity Basketball Coach, University of Southern California; Director of Physical Education and Head Football Coach, University of Idaho.

(Appointed September, 1935.)

ROY E. CAMERON, PH.D.—Professor of Economics.

A.B., Ph.D., University of California.

Student, Creighton University.

Professor of Economics, University of Omaha; Teaching Fellow in Economics, University of California. (Appointed September, 1929.)

INNIE B. CLARK, A.B.—Associate Professor of Geography.

A.B., University of Wisconsin.

Graduate student, University of Chicago; University of Mexico. Travel in Mexico and Europe.

Assistant in Geography, University of Wisconsin; Teacher, Oak Park High School, Illinois; Instructor in summer session, University of California at Los Angeles. (Appointed September, 1914.)

LATHERINE E. CORBETT, A.M.—Training Supervisor and Associate Professor of Education.

B.Pd., Michigan State College; B.S., A.M., Teachers College, Columbia University.

Graduate, Public School Music Course, Ypsilanti Conservatory of Music.

Teacher in Public Schools, Ypsilanti, Michigan; Training Supervisor, Kent State Normal College, Ohio; Evening High School, San Diego. (Appointed July, 1921.)

AMES ENSIGN CROUCH, M.S.—Assistant Professor of Biology.

B.S., M.S., Cornell University.

Assistant in Ornithology, Cornell University.

(Appointed September, 1932.)

ERBY CHESTER DEPUTY, PH.D.—Associate Professor of Education and Principal of the Training School.

A.B., University of Denver; A.M., Ph.D., Columbia University.

Graduate student, University of Southern California.

Teacher in rural schools and principal of high schools, Indiana.

Assistant Professor, University of Arkansas and Kansas State Teachers College.
(Appointed September, 1931.)

FLORENCE L. SMITH DICKHAUT, M.A.—Professor of English.

A.B., Northwestern University; M.A., University of Chicago.

Graduate student, Medill School of Journalism, Chicago.

Instructor, State Normal School, Oshkosh, Wisconsin.

(Appointed July, 1917.)

JOHN MORTIMER GLEASON, M.A.—Assistant Professor of Mathematics.

A.B., M.A., University of California.

Student, Hope College, University of Michigan, and University of Southern California.

Teaching Fellow in Mathematics, University of California.

(Appointed September, 1930.)

MORRIS HUBBARD GROSS, A.B.—Director of Athletics and Associate Professor of Physical Education.

A.B., San Diego State College.

Graduate student, University of Southern California.

Teacher, Chula Vista Grammar School; Basketball Coach, U. S. Marines and U. S. Naval Hospital.

(Appointed September, 1929.)

ILSE HAMANN, B.A.—Instructor in Art.

B.A., University of California at Los Angeles.

Student, Rudolph Schaeffer School; graduate student, Teachers College, Columbia University; pupil of Douglas Donaldson.

Teacher, San Bernardino City Schools; Instructor, Northwestern University, Evanston, Illinois; Instructor, Santa Ana Junior College.

(Appointed February, 1934.)

EDITH C. HAMMACK, B.A.—Training Supervisor and Associate Professor of Education.

B.A., San Jose State College.

Graduate, State Normal School of San Diego; graduate student, University of California.

Public school teacher.

(Appointed February, 1911.)

DOROTHY R. HARVEY, M.A.—Assistant Professor of Botany.

A.B., San Diego State College; M.A., University of Southern California.

Graduate student, Scripps Institute for Biological Research, La Jolla; University of California; University of Chicago.

Public school teacher.

(Appointed September, 1924.)

ROBERT D. HARWOOD, PH.D.—Professor of Zoology.

B.A., Pomona College; Ph.D., Cornell University.

Assistant in Biology, Cornell University; Field Entomologist, Natural Survey of Illinois; Teacher, Kern County Union High School and Junior College, Bakersfield; Assistant in Entomology, Cornell University; Stream Survey, Conservation Department, New York.

(Appointed September, 1928.)

EVERETT GEE JACKSON, A.B.—Associate Professor of Art.

A.B., San Diego State College.

Student, Agricultural and Mechanical College of Texas; Art Institute of Chicago. Graduate student, University of Southern California.

Associate Professor, Sul Ross Teachers College, Alpine, Texas; three years of travel and art study in Mexico; painter.

(Appointed November, 1930.)

MARGUERITE VEASEY JOHNSON, A.M.—Registrar and Associate Professor of Latin.

A.B., Radcliffe College; A.M., Columbia University.

Teacher of Latin, History and French; Assistant in the Registrar's Office, Teachers College, Columbia University. (Appointed July, 1927.)

MYRTLE ELIZABETH JOHNSON, PH.D.—Professor of Zoology.

B.S., M.S., Ph.D., University of California.

Research Assistant, Scripps Institute for Biological Research, La Jolla; Instructor, Pasadena High School. (Appointed September, 1921.)

SYBIL ELIZA JONES, M.L.—Assistant Professor of English.

B.L., M.L., University of California.

Director, Junior Players of Pasadena Community Playhouse; Drama Instructor in Chouinard Art School, Los Angeles; Organizing Secretary and Instructor in Playwriting of Summer Art Colony at Pasadena Community Playhouse; Drama Organizer and Director of San Diego Community Service. (Appointed September, 1925.)

JOSEPH SUMNER KEENEY, PH.D.—Instructor in English.

A.B., Yale University; M.A., Ph.D., University of California.

Instructor in English, Yale in China, Changsha, China; Instructor, San Diego Army and Navy Academy; Instructor in English, University of California. (Appointed February, 1933.)

GENEVIEVE KELLY, A.M.—Instructor in Sociology.

A.B., University of California; A.M., Columbia University.

Student, Los Angeles Public Library School. Graduate student, University of Chicago. Travel in Europe.

Teacher, Corcoran Union High School. Librarian, Northern Arizona Normal School, Flagstaff; Scripps Foundation for Research in Population Problems, Oxford, Ohio. (Appointed September, 1924.)

CHARLES B. LEONARD, PH.D.—Professor of History.

A.B., M.A., Ph.D., University of California.

Instructor in History, Lowell High School, San Francisco; Teaching Fellow in History, University of California.

(Appointed September, 1921.)

LEWIS B. LESLEY, PH.D.—Professor of History.

A.B., Stanford University; M.A., Ph.D., University of California.

Native Sons' Traveling Fellow in Europe from University of California.

Instructor, Principia School, St. Louis, Missouri; Teaching Fellow in History, University of California; Assistant Professor of American History, Pomona College; Summer session staff, Claremont Colleges. Member, University of California Lecture Bureau.

(Appointed September, 1924.)

GEORGE R. LIVINGSTON, M.A.—Associate Professor of Mathematics.

B.S., M.A., University of California.

Graduate student, University of California at Berkeley and Los Angeles; University of Southern California.

Instructor, San Diego High School and Junior College; Head of Department of Mathematics, Santa Barbara High School and Junior College. (Appointed September, 1921.)

ELMER ALLEN MESSNER, M.A.—Assistant Professor of Chemistry.

A.B., M.A., Stanford University.

Student, Marquette University, Milwaukee, Wisconsin; San Diego State College. Registered Assistant Pharmacist, State of Wisconsin; Licentiate in Pharmacy, State of California. Graduate student, University of Breslau, Germany. (Appointed September, 1931.)

CHESNEY RUDOLPH MOE, M.A.—Assistant Professor of Physics.

A.B., M.A., Stanford University.
Student, San Diego State College. Graduate Student, University of Southern California. (Appointed September, 1931.)

ABRAHAM P. NASATIR, Ph.D.—Professor of History.

A.B., M.A., Ph.D., University of California.
Native Sons' Traveling Fellow in History in Europe.
Assistant Teaching Fellow in History, University of California;
Instructor in History, University of Iowa. Social Science Research Council Fellow, 1930-1931. (Appointed January, 1928.)

WILLIAM L. NIDA, M.A.—Professor of Education, Supervisor of Public School Practice Teaching.

Ph.B., Ohio State University; M.A., University of Southern California.
Graduate student, University of Chicago.
Principal of Ohio High Schools; Superintendent of Schools in Illinois; Supervisor, Junior High School, San Diego. (Appointed July, 1921.)

LENA PATTERSON, M.A.—Associate Professor of Art.

A.B., B.S., Ohio University; M.A., Columbia University.
Student, Cincinnati Art Academy; Chicago Art Institute; Otis Art Institute; Rudolph Schaeffer School; International School of Art; Reimann School and Itten School, Berlin, Germany; Zweybruck School, Vienna, Austria.

Assistant, Ohio University; Professor, State Teachers College, Kirksville, Missouri; Assistant Scholar, Art Department, Columbia University; Instructor, Chouinard School of Art, Los Angeles. (Appointed July, 1933.)

RAYMOND CARVER PERRY, Ed.D.—Assistant Professor of Education.

A.B., Stanford University; M.A., Ed.D., University of Southern California.

Student, California Institute of Technology. Graduate student, George Washington University.

Public school teacher in Texas and California; Instructor, Long Beach Junior College; University of Southern California. (Appointed September, 1935.)

PAUL LEWIS PFAFF, B.A.—Instructor in English.

B.A., Stanford University.

Student, San Diego State College. Graduate student, Claremont Colleges; University of Southern California. (Appointed September, 1931.)

WALTER T. PHILLIPS, M.A.—Associate Professor of Spanish and French.

A.B., University of Washington; M.A., Stanford University.
Graduate student, National University of Mexico; Institute of French Education, Pennsylvania State College.

Teaching Assistant in Spanish, Stanford University; Assistant Professor of Modern Languages, Willamette University; Instructor in Spanish, Brown University. (Appointed September, 1927.)

MABEL M. RICHARDS, A.M.—Training Supervisor and Associate Professor of Education.

B.S., A.M., University of Missouri.

Graduate student, University of Southern California.

Rural, City and High School Teacher; City Superintendent of Schools; Supervisor of Mathematics, Training School, State Teachers College, Warrensburg, Missouri; Director in Demonstration School, Northeast Missouri State Teachers College.

(Appointed September, 1921.)

DONALD JAMES ROBERTSON, A.B.—Instructor in Commerce.

A.B., San Diego State College.

Graduate student, University of Southern California.

(Appointed September, 1934.)

DUDLEY H. ROBINSON, M.S.—Associate Professor of Chemistry.

B.Sc. in Sugar Engineering, University of Louisiana; M.S., University of Iowa.

Chemist, University of Louisiana Sugar House; Raceland Sugar Factory; State Sugar House, Louisiana; Research Chemist, Thornley and Company; Chief Chemist, Pacific Marine Chemicals, Inc.

(Appointed September, 1928.)

SPENCER L. ROGERS, A.M.—Assistant Professor of Anthropology.

A.B., San Diego State College; A.M., Claremont Colleges.

Student in Archaeology, School of American Research, Santa Fe, New Mexico. Graduate student, University of Southern California.

Curator in Anthropology, San Diego Museum; honorary curator in prehistory, San Diego Museum.

(Appointed September, 1930.)

MARION LYON SCHWOB, M.S.—Associate Professor of Physical Education and Acting Director of Physical Education for Women.

B.A., University of Iowa; M.S., University of Southern California.

Graduate, Department of Hygiene and Physical Education, Wellesley College. Student, Denishawn School of Dancing.

Director of Department of Physical Education for Women, University of Iowa.

(Appointed September, 1934.)

FLORENCE I. SHAFER, A.B.—Instructor in Physical Education.

A.B., University of California.

Graduate student, University of California; University of Southern California.

Instructor in Physical Education, Y. W. C. A., Denver, San Francisco, San Diego; Instructor in Physical Education, Summer Session, University of California.

(Appointed September, 1933.)

W. T. SKILLING, M.S.—Professor of Astronomy.

B.S., M.S., University of California.

Student, State Normal School, Los Angeles; Stanford University.

Teacher, Los Angeles County and City public schools; Assistant in

Physics, University of California.

(Appointed September, 1901.)

CHARLES ROBERTS SMITH, A.B.—Instructor in Physical Education.

A.B., San Diego State College.

Graduate student, University of Southern California.

Public school teacher, San Diego.

(Appointed November, 1933.)

L. DEBORAH SMITH, A.M.—Associate Professor of Music.

Mus.B., A.B., Oberlin College; A.M., Columbia University.

Graduate student, Stanford University; University of Southern California.

Head of Department of Music, State Teachers College, Winona, Minnesota.

(Appointed September, 1922.)

MARIAN PEEK SMOOR, A.M.—Training Supervisor and Associate Professor of Education.

A.B., A.M., Stanford University. Travel in Europe.

Teacher in Public Schools; Assistant in History, Stanford University; Dean of Women, State Normal School, Cheney, Washington; Instructor, Francis W. Parker School, San Diego, California.

(Appointed September, 1923.)

CHRISTINE SPRINGSTON, B.M.—Associate Professor of Music.

B.A., B.M., University of Redlands.

Graduate student, University of Redlands, University of Southern California and University of Washington; Piano study with Arnold Guerne, Olga Steeb, Charles Marsh, Isidore Philipp; harmony with Nadia Boulanger. Diplomee d' execution, Conservatoire Americain, Fontainebleau, France.

Supervisor of Music, Needles, California; Assistant Professor of Piano, Organ and Theory, University of Redlands; Instructor, San Diego High School.

(Appointed September, 1930.)

HARRY C. STEINMETZ, A.M.—Associate Professor of Psychology and Philosophy.

A.B., University of California; A.M., University of Southern California.

Assistant in Journalism, University of the Philippines, Manila; Assistant in Educational Psychology, University of California; Instructor, Glendale Union High School and San Mateo Junior College.

(Appointed September, 1930.)

JOHN PAUL STONE, M.S.—Head Librarian and Associate Professor of Library Instruction.

B.S., Northwest Missouri State Teachers College; M.S., University of Illinois Library School.

Instructor in English and Public Speaking, Senior High School, Joplin, Missouri; Library work, University of Illinois Library; Professor of Library Science, Louisiana State Teachers College.

(Appointed September, 1930.)

ALVENA SUHL STORM, M.A.—Associate Professor of Geography.

A.B., M.A., University of California.

Teaching Fellow, University of California; teacher in public schools; Instructor, San Francisco State College.

(Appointed September, 1926.)

MABEL COY TRAIL, M.A.—Instructor in English.

B.A., Parsons College; M. A., State University of Iowa.

Graduate student, University of Southern California.

Editorial assistant, Philological Quarterly; national editor for Sigma Tau Delta, honorary English fraternity. Instructor in English, high schools, Dubuque, Iowa, and Long Beach, California; Instructor, Summer Session, University of Dubuque; Instructor, English and Journalism, Long Beach Junior College.

(Appointed February, 1935.)

FRANKLIN D. WALKER, PH.D.—Professor of English.

B.A., (Hons. Oxon.), University of Oxford; Ph.D., University of California.

Student, University of Arizona; Holder of Arizona Rhodes Scholarship to Oxford.

Instructor in Dramatics, Francis W. Parker School, San Diego, California.

(Appointed September, 1926.)

HILDE MARIE KRAMER WALKER, M.A.—Instructor in German.

A.B., M.A., Northwestern University.

Graduate student, University of Chicago.

Teacher in high schools of Illinois; Assistant, Northwestern University.
(Appointed September, 1931.)

CURTIS REYNOLDS WALLING, E.E.—Assistant Professor of Mathematics and Industrial Arts.

A.B., E.E., Stanford University.

Student, Fresno State College; graduate student, Stanford University. Graduate student training course, Westinghouse Electric and Manufacturing Company, East Pittsburgh, Pennsylvania.

(Appointed September, 1931.)

DOROTHY E. WRIGHT, R.N., M.A.—Assistant Professor of Health and Hygiene.

A.B., Oberlin College; M.A., Teachers College, Columbia University.

Graduate, Washington University Training School for Nurses, St. Louis, Missouri. Public health nurse, California. Student, St. Louis School of Social Economy.

Generalized Public Health Nursing under Kentucky and California State Boards of Health, and with Henry Street Nursing Service, New York City. Director of Health Service and Health Education, State Normal School, Jersey City, New Jersey.

(Appointed September, 1935.)

W. H. WRIGHT, M.A.—Associate Professor of Commerce.

B.S., M.A., University of California.

Head of Department of Commerce, Visalia Union High School, Visalia, California.
(Appointed September, 1921.)

ASSOCIATE MEMBERS OF THE FACULTY

FLOYD ADAMS—Instructor in Industrial Education.

Student, United States Naval Aviation School, Great Lakes, Illinois.
Varied experience as technician and mechanic in aeronautics.
Instructor in aeronautics, Pacific Scientific Company, Los Angeles;
Western College of Aeronautics and Curtiss-Wright Flying Service;
Ryan Aeronautical Corporation, San Diego. United States Naval Aviation.

DEAN BLAKE—Instructor in Meteorology.

Meteorologist, United States Weather Bureau, San Diego.

MARIAN EVANS, B.S.—Instructor in Education.

B.S., New York University.
Graduate, State Normal School, Los Angeles; Student, University of California, University of New Mexico, San Diego State College.
Teacher, San Bernardino, Sierra Madre, San Marino; Director of Visual Education Activities, San Diego City Schools.

JEROME J. GREEN, M.E. in E.E.—Instructor in Physics and Mathematics.

M.E. in E.E., Ohio State University.
Student, San Diego State College.
Varied public school experience. Head of Department of Physics and Electrical Engineering, University of Notre Dame; Professor of Mechanical and Electrical Engineering, University of Southern California.

DONAL HORD—Instructor in Art.

Student, Santa Barbara School of Fine Arts. Gould scholarship student, Escuela de Bellas Artes, Mexico, D. F.; Pennsylvania Academy of Fine Arts.

Instructor, Santa Barbara School of Fine Arts. Sculptor.

EDWIN ATHELSTAN ROSS, A.B.—Assistant Professor of Industrial Education.

Pd.B., Colorado State Teachers College; A.B., University of Southern California.

Graduate, Bradley Polytechnic Institute, Peoria, Illinois. Graduate student, Universities of Illinois and California, Columbia University, California and Massachusetts Institutes of Technology.

Varied experience in public schools as teacher, supervisor, and administrator. Instructor, Boeing School of Aeronautics, Oakland, California; Vocational Director and Aeronautics Instructor, High School and Junior College, Taft, California; Technical Instructor and student aviator, California Flying School. Officer in United States Naval Aviation; Research Aeronautical Engineer, Government Laboratories, Langley Field, Virginia.

WILL J. STANTON, LL.B.—Assistant Professor of Law.

LL.B., University of Michigan.

Graduate student, University of Michigan.

Editor legal journal; Practicing attorney, Michigan and California.

Instructor, San Diego High School and Junior College.

FRANK M. WATENPAUGH, M.A.—Instructor in Commerce.

A.B., Pomona College; M.A., University of Southern California.

Graduate student, University of California.

Instructor in Extension Division, University of California; Instructor in and Principal of high schools in California; public accountant

ASSISTANTS

ARTHUR JAMES O. ANDERSON, A.M.	English
MURIEL BENNETT, B.A.	Physical Education
VIRGINIA E. CULVER, A.B.	Training School
ROBERT S. HOARD, A.B.	Zoology
JOHN D. WIMMER, M.A.	History

SUPERVISORS IN THE EUCLID SCHOOL

HELEN K. SYLVESTER	Principal
RUTH M. COOPER	MURIEL CLAYTON
MARIE M. JOHNSON	MARGARET J. TROXEL

SPECIAL LECTURERS

GEORGE D. HUFF, M.D., F.A.C.S.	F. G. LINDEMULDER, M.D.
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MEDICAL STAFF

O. S. HARBAUGH, M.D.	Medical Examiner (Men)
RIETA C. HOUGH, M.D.	Medical Examiner (Women and Training School)
MARILYNN M. FENWICK, R.N.	College Nurse

LIBRARY STAFF

JOHN PAUL STONE, M.S. in Library Science	Head Librarian
ELSIE ANDERSEN, A.B.	Assistant Librarian
LULU GERMANN, B.S.	Assistant Librarian
EVELYN HOLCOMB, A.B., and Certificate of Librarianship	Assistant Librarian
GENEVIEVE KELLY, A.M.	Assistant Librarian
GERALDINE KIRKHAM, A.B., B.S.	Assistant Librarian
HARRIET B. STOVALL	Assistant Librarian in charge of Training School Library Department

STAFF OF REGISTRAR'S OFFICE

MARGUERITE V. JOHNSON, A.M.	Registrar
DOROTHY MAY COOPER	Assistant Registrar
MADOLYN J. BARNES, B.A.	Secretary to the Registrar
VERNA E. SHACKELFORD, A.B.	Clerk

STAFF OF BUSINESS OFFICE

F. W. VAN HORNE	Financial Secretary
L. J. CROUCH	Assistant Financial Secretary
MAYME J. SULLIVAN	Telephone Operator

STAFF OF PLACEMENT OFFICE

MARY IRWIN McMULLEN, A.B.-----Director
ANNE SULLIVAN MOLDENHAUER-----Secretary

TRAINING SCHOOL STAFF

ERBY CHESTER DEPUTY, Ph.D.-----Principal
FLORENCE WIGGINS-----Secretary

MAINTENANCE STAFF

C. L. FISKE-----Buildings
MARTIN ROTH-----Grounds
A. L. SEELIG-----Heat and Mechanical Equipment

THE COLLEGE

HISTORICAL SKETCH

The San Diego State College has developed through three definite cycles. It was first known as the State Normal School of San Diego. It was established by legislative enactment in 1897 and opened in the fall of 1898.

The second stage of its growth began in 1921, when the legislature converted all the California normal schools into state teachers colleges. During the same year, the San Diego Junior College was merged with the teachers college. This combination made lower division collegiate courses available in a single institution for the various types of students in the community. From 1927 to 1934, the junior college relationship was discontinued, and the teachers college carried the lower division offerings. These offerings were enriched when the junior college arrangements were resumed in September, 1934. In 1923, the four-year curricula were established leading to the A.B. degree with a major in education. The complete list of teaching credentials authorized by the State Board of Education at that time and subsequently, to be granted in connection with the degree, are as follows: general elementary, general junior high school; special secondary in art, business education, music, and physical education. Presecondary curricula were first authorized by the State Board of Education in 1928 and major subjects were approved from time to time until a total of thirteen was finally reached: art, chemistry, commerce, economics, English, geography, history, mathematics, music, physical science, physics, Romance languages, and zoology.

In September, 1935, the college entered upon its third phase when it became, by legislative enactment, the San Diego State College. This enabled the college to drop the requirement in education courses from the curricula previously known as presecondary and to convert them into liberal arts curricula leading to the A.B. degree with any one of the thirteen majors enumerated above. Thus, while still retaining teacher education as a major function, the San Diego State College is now able to offer a rather broad liberal arts program for students with varied objectives and needs.

ENVIRONMENT AND STANDARD

OPPORTUNITIES FOR CULTURE AND RECREATION

In cultural standards in art, music, literature, and science, San Diego is a favorable college city. While it is not large, it has certain distinctive metropolitan advantages for the student. Many of these are to be found in the heritage resulting from the expositions of 1915-1916 and 1935-1936, including the buildings themselves, which in their consistent and effective carrying out of motifs of the best types of Spanish colonial art, make up one of the finest exhibits in architecture in America. Housed in these buildings are exhibits in anthropology and culture history which are unsurpassed in certain fields, together with natural history collections, and materials for the study of American archaeology. There is complete cooperation with the directing boards controlling the collections. The Fine Arts Gallery contains excellent exhibitions of paintings. There are plans for the development of a Public Conservatory of Music for which the great out-of-door organ furnishes a beginning. Balboa Park, in which all of these facilities are located, also contains a modern horticultural farm and a great stadium for games, community gatherings, and pageants.

At La Jolla, within the city limits, the Scripps Institution of Oceanography, operated by the University of California, gives opportunity for important cooperation in the biological field.

The courses in commerce and other branches of economics will be considerably aided by San Diego's growing importance as a commercial point, particularly as the college will be able, as is planned, through its department of economics, to assist the local Chamber of Commerce in industrial and commercial surveys.

The teacher-training program profits because of the policy of cooperation generously followed by the City School Department, which has resulted in a plan for laboratory work in practice teaching in the city schools. San Diego's fine system of schools, with all of the modern divisions of kindergarten, elementary school, junior high schools, and senior high schools, furnishes unusual opportunities for observation and demonstration to students in training, and for cooperation between the specialist of the city school system and the college.

PHYSICAL CONDITIONS: CLIMATE

The physical conditions in San Diego for study are unsurpassed, since sustained intellectual effort can be maintained always with comfort in the cool, even climate of the place. Temperatures are usually shown on a globe by lines which pass through regions of the same degree of heat or cold. Red lines of 60 degrees and 70 degrees, showing the summer temperature at San Diego, enclose Alaska and Siberia. Blue lines of 40 degrees and 60 degrees, showing the winter temperature at San Diego,

enclose Egypt and Arabia. Thus San Diego may be said to have Alaskan summers and Egyptian winters.

Recreational opportunities of an unusual number and variety are open to students, because of the combination of bay, sea beach, mesas, foothills, and mountains, all within compass of two hours travel by automobile. Outdoor sports of all kinds, including swimming and rowing, are possible the year round.

BUILDINGS AND EQUIPMENT

On February 1, 1931, the college was moved to the new buildings and campus, located one mile north of the city's principal east-west boulevard, El Cajon Avenue. The campus has an area of one hundred twenty-five acres. The new buildings are part of a general plan to be completed within the next few years. This plan calls for one style of architecture for the entire group of the Spanish-Moorish type, which is well suited to the landscape and climate of the region. The buildings now in use include the Academic Building, which houses lecture halls, classrooms, and administrative offices; Science Building; Library; Little Theater; Training School; Scripps Cottage (a social clubhouse for women students); the Student Building, housing the soda fountain, cafe, and bookstore; the Physical Education Building, a structure of the duplex gymnasium type, with adequate facilities for the physical education and development of both men and women. The campus also contains playing fields and courts for collegiate sports and athletics. The training school is supplied with its own, separate play spaces.

A concrete stadium with wooden seats is in the process of construction, and a portion of it to accommodate about 10,000 persons is expected to be ready for the football season of 1936. The ultimate seating capacity will be approximately 45,000 and the final cost about \$425,000; it will be equipped with an electric score board, public address system, and flood lights for night games.

AFFILIATED PRACTICE SCHOOL

The Euclid School, a San Diego City elementary school, is affiliated with the college for practice teaching purposes. Cadets are assigned to teach in this school after having had successful initial experience in the Training School or elsewhere. The assignment is for a full half-day for the semester and carries a maximum of seven and one-half units of credit.

STANDARDS OF HEALTH, SCHOLARSHIP AND CHARACTER

All entering students are required to meet the health standards set by the department of physical education, and all lower division students, unless excused for cause, are required to take the courses in physical education, prescribed for freshmen and sophomores. Furthermore, each student is expected as a matter of efficient student and community life to keep himself in the best possible physical condition.

Standards of scholarship are based upon high entrance standards. Frequent ratings of the student are made by his instructors, so that he may at all times know how he stands; but the ability of the student to manage his own educational career and to come reasonably near to his best capabilities are factors that will count in his final ratings.

Since standards of character, as developed by and measured by honest student work and as revealed by evidences of the possession of thorough-going self-respect and community feeling, particularly as to ideals in the important matters of citizenship and future parenthood, are more important than all else, every student will have full opportunity to show that he is worthy and that he has the capacity and the will to manifest and develop character.

ROUTINE AND PROCEDURE

Outside of the necessary routine and procedure in the conduct of registration, class attendance, conduct of examinations, and the like, college affairs are controlled by standards which are the result of experience or which reflect a very definite public opinion and college morale. There is no honor "system," but there is a standard of honor as to honesty in college work. Matters of personal conduct are not the subject of rules and regulations, but are affairs of personal and individual responsibility. Problems of conduct and control affecting the student body or student groups are dealt with as they arise (if they are not already the subject of custom, or of student body by-laws) and usually are settled by student action.

ORGANIZATION

THE CALENDAR AND REGISTRATION

The college year is divided into the fall and spring semesters of eighteen weeks each, followed by a summer session consisting of terms of six and three weeks. Students may enter at the beginning of either semester and at the beginning of either the six or the three weeks' summer term.

The Summer Session meets the needs of regular students who wish to gain credits toward the A.B. degree, of teachers in service, and of liberal arts students who wish to secure supplemental credit or to shorten the time for completion of work in the lower division.

Registration of students will be made September 14 and 15 for the fall semester, and February 9 and 10 for the spring semester. Entering freshmen are required to file the high school principal's recommendation or the high school transcript before registration day. This recommendation must be made on a form furnished by the college. Those entering with advanced standing must submit transcripts of record covering high school and college work by August 21, January 22, and June 4, for admission to the fall and spring semesters of 1936-1937, and the summer session of 1937, respectively. An application for evaluation must also be filed, stating which curriculum is desired. In the case of transcripts arriving after the dates specified, persons will run the risk of being obliged to register as special students, without adequate advice concerning their programs with reference to requirements.

ADMISSION TO COLLEGE

GENERAL REQUIREMENTS

Every person admitted as a student to this college must be of good moral character, of good health, and of that class of persons, who, of proper age, would be admitted to the public schools of the State without restriction. At entrance, every student must take an examination to determine his physical fitness to do college work. Two years later a second physical examination must be taken by any student who is a candidate for a teaching credential.

A candidate for admission under any of the three following types of standing must submit the names of three persons by whom he or she has been employed (including the latest employer), if the candidate has not been in attendance at school or college during the semester preceding entrance. These names should be placed on file with the Registrar at least three weeks before the date of registration.

I. Freshman Standing

High school graduates and other applicants possessing equivalent preparation may be admitted to a state college upon evidence of fitness to profit by college instruction, such fitness to be shown by previous scholastic records, by evidence of good moral character and personal qualifications, and by a satisfactory score on a standard college aptitude test. Regular matriculation will be granted only after the satisfactory completion of a full semester's program of study with records indicating probable success in the chosen curriculum.

Upon admission all students shall be classified on the basis of curricula chosen and their qualifications for undertaking such curricula. Approval for full matriculation shall be granted by the college faculty in accordance with state board of education regulations.

Certificates of successful examinations before the College Entrance Examination Board will be accepted to admit candidates who can not meet the above requirements. The entrance examinations of the Board are held in June each year (in California, at Berkeley, Los Angeles, San Diego, and other places). Applications for examinations must be addressed to the College Entrance Examination Board, 431 West 117th street, New York. They must be made upon a blank form to be obtained from the secretary of the Board upon request.

II. Advanced Standing

From other colleges. Credits earned in accredited colleges shall be evaluated and advanced standing allowed on the basis of the evidence submitted. Credit toward the fulfillment of graduation requirements shall be allowed only in so far as the courses satisfactorily completed meet the standards and the requirements of the basic course pattern of the state college. A scholarship record equal to C average in this college is required in every instance.

Credits earned in non-accredited colleges may be accepted as a basis for advanced standing only to the extent that the applicant can demon-

strate to the satisfaction of the state college authorities that a satisfactory degree of proficiency has been attained in the courses in question.

From junior colleges. Credits earned in accredited junior colleges shall be evaluated in accordance with the following provisions: (1) Not more than sixty-four semester hours of work may be allowed for credit. (2) No credit may be allowed for professional courses in education.

N. B.—Transcripts of record from other institutions will not be returned or copies of them made.

III. Special Standing

Applicants over twenty-one years of age, who are not high school graduates and who do not possess equivalent preparation but whose score on a standard college aptitude test indicates ability to do satisfactory college work in the chosen curriculum, may be granted provisional admission as special students but such persons may be granted full matriculation only upon the removal of all deficiencies and upon the completion of one full semester's satisfactory college work in the chosen curriculum.

MATRICULATION RECOMMENDATIONS FOR CERTAIN CURRICULA

In planning to comply with the foregoing requirements for freshman standing, the prospective student is advised to arrange his high school program so as to enable him to enter without handicaps the work of the curriculum to which he seeks admission. Although deficiencies in certain subjects may be removed after admission to freshman standing, such removal will not only reduce the student's opportunity for elective study but may make it necessary for him to extend his college course beyond the normal period of time required for its completion.

In general preparation for a teacher-training curriculum, the prospective student should have attained proficiency in reading, spelling, handwriting, arithmetic, and the use of English.

In preparation for major work in the biological sciences and in the premedical and predental curricula, the prospective student is advised to include chemistry or physics and French or German. For a college major in mathematics or physics, the student should include French or German, geometry, algebraic theory and trigonometry in his high school program, and for a major in chemistry he should include algebraic theory and physics or chemistry. Algebraic theory and trigonometry are recommended for a major in commerce. In his preparation for engineering curricula, the prospective student is strongly urged to lay a good foundation in the study of elementary algebra, plane geometry, algebraic theory, trigonometry, physics, chemistry, and mechanical drawing. For a major in English or a foreign language, the study of Latin is recommended.

MATRICULATION

A student is matriculated when he has satisfied all entrance requirements. The standing of all students is conditional during the first semester of residence.

REGISTRATION PROCEDURE

REGISTRATION

Registration takes place on regularly appointed days at the beginning of each semester. Faculty advisers representing every curriculum assist students in the planning of their programs, but students are urged to study the requirements of the curriculum they intend to follow and to decide upon their choice of electives before consulting their advisers. New students should not expect assistance with their programs until registration day. Upper division students in teacher-training curricula, however, are given the privilege of planning their programs during a preregistration period held in the latter part of each semester, when they may hold more lengthy consultations with their advisers than on registration day. Since payment of fees is one of the first steps in the registration procedure, students should be careful to provide themselves with sufficient funds on registration day.

TESTS REQUIRED AT REGISTRATION TIME AND LATER

(See Calendar for dates)

1. An examination for the determination of physical fitness is required of all students at entrance. Appointments are made during registration.
2. All students entering the college are required to take the College Aptitude Test, mainly for purposes of guidance and assistance. Exceptions may be made for students who register for five units of work or less, for former graduates of this college, and for graduates of approved four-year colleges.
3. The Subject A Test (English Composition) is required of all entering students. English 1A must be taken by all students whose tests indicate that they are not qualified for English 1B, even though they may not intend to take that course. No student may enroll for his third semester of attendance unless he has qualified for English 1B or is enrolled in English 1A. Exceptions may be made for students transferring credit in English from another college.
4. Passing the Fundamentals Test in reading, spelling, arithmetic and handwriting is a prerequisite for admission to upper division courses in teacher training curricula. Students should take this test upon entrance to college in order that they may have sufficient time to make up deficiencies, if any, before applying for admission to the upper division. Exceptions may be made for former graduates of this or other California State teacher training institutions who have been teachers in service.
5. All candidates for a teaching credential are required to take a Speech Test. Remedial work will be required of all who fail to pass the test.

LATE REGISTRATION

A new student who registers after the close of the first week of the semester is subject to a limitation of his program. A fee of \$2 must be paid for registration after the regular registration period. After the first week of the semester, the instructor's approval must be secured for each course entered.

CHANGES IN REGISTRATION

Changes in program may be made only with the approval of the student's adviser. In addition, the instructor's approval must be secured for entering a course after the first week.

A statement regarding withdrawals from class is to be found on page 30.

AUDITORS

Regular auditors must register in the usual way, though this may be done on the first day on which they have classes, without payment of the late fee.

FEES (SUBJECT TO REVISION)

Fees Payable at Time of Registration

Registration	
Resident students-----	\$6 50
Limited students and auditors (5 units or less)—resident (fee per unit) -----	2 50
*Nonresident students—1st semester-----	75 00
2d and subsequent semesters-----	37 50
Training school pupils-----	2 50
Late registration fee (effective after the registration period)	2 00
Locker (key or combination padlock each issue)-----	25
Local Organizations—	
Student Body Fee-----	5 50
Associated Men Students or Associated Women Students Fee	50

Fees Payable When Service Is Rendered

College Aptitude Test-----	\$2 00
English—Subject A Test-----	25
Fundamentals Test -----	50
Placement Office -----	2 00
Placement Office—copy of papers—3 for-----	25
Evaluation of Record for Advanced Standing-----	2 00
Duplicate Library Card-----	10
Transcript of Record-----	1 00
Carbon copy of Transcript of Record-----	25
Special Examination -----	2 00

* See page 27 for definition of residence for fee-paying purposes.

State Teaching Credential**

Elementary	
Junior High School	
Elementary and Junior High School	
Special Secondary	
School Administration	
School Supervision	
Each Credential-----	\$3 00

Fees Payable During Seventh Week of Each Semester

Library -----	\$1 25
Mimeographing -----	50
Health -----	75
Towel, men -----	1 50
Towel, women -----	1 00
Parking -----	50

In addition to the above, there are laboratory fees and course charges for certain courses, ranging from 50c to \$7.50 per course, which are payable during the seventh week of each semester.

LIVING EXPENSES

Since no dormitories are maintained by the college, it is impossible to supervise the living quarters of college students. Students are required to keep the office of the Dean informed of their places of residence if not living with parent or guardian, and every effort is made to assist them in choosing suitable living accommodations.

The Dean of Women will furnish upon request addresses of homes in which board and room may be secured; also lists of apartment houses and single rooms which may be patronized by students.

Board and room, two meals per day, may be procured at from \$35 to \$45 per month. While at present there are very few accommodations in the immediate vicinity of the college, all of those listed are within reasonable distance and easily accessible to the college.

SELF HELP AND LOAN FUND

A limited amount of clerical work in offices and library may be offered from time to time, but ordinarily is not sufficiently remunerative to reduce expenses materially. An employment service is conducted by an administrative committee, members of which are the Dean of Women, the Dean of Men and the Dean of Liberal Arts.

The San Diego State College Loan Foundation is administered by the Alumni Association for the purpose of helping worthy students with insufficient financial resources to continue their education. Both long and short term loans are available to students who have been in attendance at the college for at least one year. Loan funds are also administered by the San Diego City Teachers' Association, the Scottish Rite Woman's Club, and the Thursday Club.

** The credential fee is collected through the college office by post-office money order payable to State Department of Education.

SCHOLARSHIPS AND PRIZES

Cap and Gown, Senior Women's Honorary Society, awards a fifty-dollar scholarship annually. Any upper division woman student with a grade-point average of at least 2.01 is eligible to apply. Application is made to the Dean of Women in May of the year preceding awarding of scholarship.

Miss Vivian Conway, past president of the San Diego chapter of the American Association of University Women, offers an annual award, consisting of a first prize of \$10 and a second prize of \$5, for essays written on a subject in the field of French literature. This competition is open to students in the upper division French classes.

The Spanish Department offers an annual award, consisting of a first prize of \$10 and a second prize of \$5, for essays written on a subject in the field of Spanish literature. This competition is open to students in the upper division Spanish classes.

ADMINISTRATIVE REGULATIONS

OFFICERS FOR CONSULTATION

Concerning the housing and living arrangements of students, dates and arrangements for all student social affairs, personal advice (women)—The Dean of Women.

Concerning matters of student-body policy, personal advice (men), etc.—The Dean of Men.

Concerning supervision of practice teaching, conference, credential requirements, etc.—The Dean of Education.

Concerning matriculation, program of studies and teaching, credits, etc.—The Registrar and the Board of Student Advisers.

Concerning health and physical condition, physical education, athletics, etc.—The Director of Physical Education (women); The Director of Physical Education (men).

Concerning relations to the training school, to pupils, routine, etc.—The Principal of the Training School.

Concerning student-body affairs—The executive officers of the student body; the Dean of Liberal Arts; the Dean of Women; the Dean of Men.

Concerning Appointments to teaching positions—The Placement Secretary.

Concerning use of the buildings—The Superintendent of Buildings.

RESIDENCE

For fee-paying purposes, residence is defined as "the place where one remains when not called elsewhere for labor or other special or temporary purpose, and to which he returns in seasons of repose. There can be only one residence. The residence of the father during his life and after his death, the residence of the mother while she remains unmarried, the residence of the unmarried minor child. The residence of the husband is the residence of the wife." (Sec. 52, Political Code of the State of California.)

CLASSIFICATION

Regular students are those students who have complied with the requirements of admission and are registered in $5\frac{1}{2}$ or more units of work.

Limited students are partial course students who, for adequate reasons, have been permitted to register for 5 units of work or less.

Special students are mature students who have not satisfied all entrance requirements and who are registered for such courses as their ability and

preparation qualify them to pursue. Special students may also be limited students.

For convenience in administration, students who have completed 0 to 29 units of work are classified as freshmen; those who have completed 30 to 59 units, as sophomores; those who have completed 60 to 89 units, as juniors; and those who have completed 90 or more units, as seniors.

UNITS OF WORK AND STUDY-LISTS LIMITS

A unit of credit represents approximately, for the average student, three hours of actual work per week through one semester—one hour of lecture or recitation, together with two hours of preparation; or three hours of field or laboratory work.

Sixteen units, in addition to physical education ($\frac{1}{2}$ unit), constitute a normal semester's program for all students. An entering freshman, however, is allowed to enroll for a maximum of 17 units, and all other students for a maximum of 18 units, provided such additional enrollment seems to the adviser necessary or advisable in order to round out the study program. Ordinarily, only 16 units, in addition to physical education, will be credited toward graduation; except that, after a student's first semester at the college, a program of 17 units, in addition to physical education, will be credited provided the student was registered for at least 12 units in the preceding semester and attained an average of not less than 1.5 grade points; 18 units will be credited provided the student attained an average of not less than 2.0 grade points. Any course in which a student received a passing grade may be used in the satisfaction of course requirements, even though such course is in excess of the units credited for graduation. Credit for a program that does not conform to the above regulations can be obtained only by permission of the Scholarship Committee, upon petition. No student will be allowed to register for less than 12 units without the approval of the academic dean of his department.

SCHOLARSHIP GRADES AND GRADE POINTS

The following grades are used in reporting the standing of students at the end of each semester: A, excellent; B, good; C, fair; D, passed; E, conditioned; F, failed; I, incomplete.

Grade points are assigned as follows: Grade A, 3 points per unit; B, 2 points per unit; C, 1 point per unit; D, no points; E, minus 1 point per unit; F, minus 1 point per unit.

The grade E is used to record work which is of low order but which may be made passable. If by the close of the next semester the work has been satisfactorily completed the grade E is changed to a D; otherwise it is changed automatically to an F. The grade I is used to record work which may be of higher order but which is incomplete for some acceptable reason. Ordinarily to change an I to another grade the work must be completed within a year. In case of failure in a course, no credit is given until the course has been repeated.

To qualify for a certificate in any curriculum or for a diploma of graduation or for a transcript of record with recommendation, in transferring to another collegiate institution, a student must have earned as many grade points as the number of units he has attempted; that is, he must have attained an average of at least C grade in all work undertaken at

the college. On a transcript of record for a student whose scholarship is below a C average, the honorable dismissal shall be qualified by the phrase "except for scholarship."

ELIGIBILITY FOR PRACTICE TEACHING

No student shall be eligible for practice teaching (Education 116) who has not completed 75 units, been admitted to upper division teacher training, and whose entire record, and also his record for the preceding semester, does not average C grade.

PROBATION AND DISQUALIFICATION

A scholarship record below an average of grade D per unit of work undertaken in any single semester disqualifies a student for further attendance at the college.

Any student whose scholarship record shows a cumulative deficit of 12 or more grade points for all work undertaken in the college to the close of any semester will be placed on probation.

A student whose study lists have averaged less than 12 units per semester will be placed on probation if his cumulative deficit equals or exceeds the average number of units carried per semester.

Any probational student whose scholarship falls below an average grade of C in any single semester is disqualified for further attendance at the college. Probationary status may be continued until the cumulative grade-point deficit be reduced, in the case of a regular student to an amount less than 12 and, in case of a limited student, to an amount less than the average number of units carried per semester.

A disqualified student may be reinstated after an interval of one semester for reasons satisfactory to the Executive Committee. All applications for reinstatement must be in writing.

SPECIAL EXAMINATIONS

Special examinations are classified as (1) matriculation examinations; (2) final examinations taken at other than the regular time; (3) examinations taken for the purpose of removing conditions; (4) examinations for advanced standing.

For every special examination given, the student shall pay a fee of two dollars at the business office. The instructor shall give such examination only on the presentation by the student of a receipt showing that the fee has been paid.

EXAMINATIONS AT SPECIAL TIMES

No final examinations shall be given to individual students before the regular final. Any student who finds it impossible to take a final examination on the date scheduled must make arrangements with the instructor to have an incomplete grade reported and must take the deferred final examination not later than the end of the second semester following that in which the incomplete was given. No exceptions shall be made to this rule without the approval of the dean of the department and the instructor concerned.

CONDUCT OF EXAMINATIONS

All final examinations shall be written in Official Examination Books or other forms which shall be furnished by the college and distributed by the instructor at the beginning of the examination period. No books or papers of any kind shall be brought into the examination room, except by special order of the instructor.

WITHDRAWALS FROM CLASS

A student may not withdraw from class without the permission of the proper study-lists officer on a "change of registration card," which must be filed in the Registrar's Office. An unauthorized withdrawal from a class will result in a mark of failure on the student's record. A withdrawal after the third week of a semester except for reasons beyond the student's control is interpreted as a failure in the course. A student who is obliged on account of ill health to withdraw completely from college after the third week may, upon presentation of a physician's certificate, have his courses dropped from his record without penalty if he has maintained a C average in all his studies up to the beginning of the current semester. Any student who withdraws completely from college for any other cause after the third week may have those courses in which his grade was C or better at the time of his withdrawal dropped from his record without penalty, but a grade of F (failure) will be recorded for all courses in which his work was below C at that time.

PLACEMENT SERVICE

A Placement Office is maintained by the college as a clearing house of employment information for superintendents and employing boards and students of the college. While the purpose of this office is to assist candidates in securing positions, it is the primary aim of the office to bring about a better adjustment of the teacher to the community. A complete record of college attainments is kept in a confidential file for each registrant of the office and this material is made available to employers. Recommendations are based on records which indicate every item in the candidate's equipment, and particular care is taken to select in each case the candidate who can best meet the requirements of the position. A fee of \$2 is payable each year in which active service is desired.

STUDENT LIFE

ORGANIZATIONS

Student affairs, and organizations to foster them, are many and varied, but are well coordinated through the central student body organization. The Associated Students. The following lists indicate the fields of activity:

Amotl (Library Assistants); Art Guild; Biology Club; College Orchestra; Delvers (Geology); El Club Azteca; International Relations Club; Le Cercle Francais; Masquers; Nu Alpha Chi (Japanese); Photophans; Press Club; Roadrunners (Geography); Skull and Dagger (drama).

National Honor Societies: Alpha Mu Gamma (Language); Kappa Delta Pi, Alpha Sigma Chapter (Education); Lambda Delta Lambda, Delta Kappa Chapter (Chemistry).

Men: Alpha Phi Omega (National); Associated Men Students; Aztec Fencing Club; Blue Key (National); College Band; Glee Club; Oceotl (Lower Division); Physical Education Club; Tau Sigma (Economics); Toastmasters' Club.

Social Fraternities: Delta Pi Beta; Epsilon Eta; Eta Omega Delta; Kappa Phi Sigma; Omega Xi; Phi Lambda Xi; Sigma Lambda; Tau Delta Chi.

Women: Associated Women Students; Cap and Gown; Cetza (Lower Division); College Y. W. C. A.; Mu Gamma (Music); Mu Sigma Pi (Music); Pi Phi Epsilon (Economics); Physical Education Club; Toastmistresses' Club; Treble Clef (Glee Club); Women's Athletic Association.

Social Sororities: Alpha Sigma Alpha, Omega Omega Chapter; Delta Chi Phi; Epsilon Pi Theta; Gamma Phi Zeta; Kappa Theta; Phi Kappa Gamma; Phi Sigma Nu; Shen Yo; Sigma Pi Theta; Tau Zeta Rho; Theta Chi.

Men's Athletics: Football; baseball; basket ball; track; swimming; tennis, cross country; wrestling; fencing; and golf.

Women's Athletics: Rowing; swimming; tennis; golf; horseback riding; and seasonal sports.

Publications: The Aztec (weekly); Del Sudoeste (year book); and El Palenque (quarterly).

ALUMNI ASSOCIATION

The college has an active Alumni Association. Since its reorganization in March, 1929, the association has steadily gained in membership. The annual Homecoming is an important event each year; other meetings take place on dates of important athletic contests. The association also sponsors the organization of Aztec clubs in various communities. Information concerning the association may be obtained by writing the secretary at the college.

DEGREE REQUIREMENTS

I

GENERAL REQUIREMENTS FOR THE DEGREE OF BACHELOR OF ARTS IN THE CURRICULA WITH TEACHING CREDENTIALS

Total Units, Length of Time, and Residence

A minimum of 124 units¹ of college work is required, representing a four-year course. Students who are planning to secure California teaching credentials through graduation from this college are urged to follow the curriculum pattern for the credential or credentials which they wish to earn, throughout the entire four years. Not less than 54 units must be earned in the junior and senior years; at least 30 units of work at this college; twenty-four of these residence units must be taken with the rank of senior, at least twelve of which must be taken in the fall or spring semester of the final year before graduation.

Admission to Upper Division Teacher Training

Students are not admitted to upper division status in teacher training on the basis of merely having completed the lower division work. Application for admission to upper division work should be made during the final semester of the sophomore year and a committee of the faculty appointed for this purpose, will review the candidate's records and make recommendations regarding admission. In the main, this committee will be guided by the following factors:

1. The completion of the lower division work of a given teacher training curriculum including all the preliminary tests required of teacher training candidates with a scholastic record of C or better.
2. Physical fitness as shown by a prescribed examination given by a college physician.
3. Fitness for teaching to be determined by interviews and evaluation by a committee of the faculty who will consider the following additional factors established by the State Board of Education: intelligence, scholarship, professional aptitude, personality and character, speech and language usage, and many-sided interest.

Upper Division Course Requirements

At least 40 of the units completed during the junior and senior years shall be in upper division courses (see definition under heading Course of Instruction); junior standing requires 60 units of credit. Introductory courses open to first semester freshmen when taken in the junior or

¹ For definition of units see page 28.

senior year may involve either additional work or reduction in the number of units of credit.

Advanced Standing in Teacher Training

A maximum of 18 units in courses in education will be credited toward degree requirements in case such work was taken more than 5 years before entering upon the degree curriculum at this college (date of first work taken after an evaluation of record has been made, for students entering with advanced standing). After an interval of 5 years subsequent to last attendance, evaluations are subject to revision with respect to deduction of credit in education courses and such new requirements as may have been put into effect.

Students formerly in attendance will not be considered to be working in the degree curriculum until an evaluation and statement of credit has been secured from the registrar's office. All courses taken either at this college or elsewhere must be approved by an official adviser or the registrar (for those taken elsewhere) in order to be credited toward meeting degree requirements.

Summary of Basic Requirements, Common to All Curricula in This Group

Education	18 units
Lower division courses in English.....	6 units
Lower division courses in natural sciences.....	14 units
Physical Education activity.....	2 units
Political Science 101.....	2 units
Psychology 1A	3 units
Lower division courses in social sciences.....	14 units

Explanation of the basic requirements:

In the different curricula leading to the various teaching credentials, specific courses are required in the various subjects listed in the summary which may total more than the minimum given in the summary. In addition, the following information must be taken into consideration in connection with fulfilling the requirements in each subject.

English

Courses in journalism or in speech arts are not accepted in satisfying this requirement. The following courses or their equivalents are required: English 1A, 1B, and 2 or 3.

Natural Sciences

The electives in natural science may be reduced to a minimum of 8 units if the student presents acceptable grades from the high school in natural science in laboratory courses offered exclusively for the third or fourth year students. In general, each year's work of high school science will thus reduce the requirements by 3 units of credit. No college credit will be given for the high school work; merely an exemption of the requirements will be permitted. The college courses which may be used in

satisfaction of this requirement are: Agriculture 20, Astronomy 1, 5, 11; Biological Science 1, 10A-10B, Botany 2A-2B, 4, 5, 7; Chemistry, 1A-1B, 5, 7-8; Geography 1, 3; Geology 1A, 1B; Physical Science 1, Physics 1A-1B, 1C-1D, 2A-2B, 3A-3B; Zoology 1A-1B.

Political Science 101

Political Science 113 or 152, or History 171A-171B or 173A-173B will be accepted as substitutes for this requirement.

Social Sciences

Courses in the following departments may be used in satisfaction of this requirement: Anthropology, economics (except 14A-14B), geography (except 1 and 3), history, political science, social science, sociology.

Major and Minor Requirements

For the elementary school credential, two academic teaching minors are required; for the junior high school credential, or for both the elementary and junior high school credentials together, an academic teaching major and an academic teaching minor are required. For the special credentials, the requirement consists of a major in the special subject and an academic teaching minor. An academic teaching major consists of a minimum of 24 units in a field other than education, twelve of which must be in the upper division. A C average in scholarship is also required in all upper division courses in the field of an academic teaching major. A major in a special subject varies from 24 to 40 units as specified in the requirements for the various curricula. An academic teaching minor consists of 12 units in a field other than education, six of which must be in the upper division. Academic teaching majors and minors may be established in the following fields: English, foreign languages, general science, mathematics, and social sciences (economics, geography, history, political science, sociology). Academic teaching minors may also be established in art, music, and physical education.

Candidates for the academic teaching major in the field of English will be expected to show credit in English 1A, 1B and 2 or 3 with six units of electives in the lower division; English 130A and 130B and six units of electives in the upper division. Candidates for the academic teaching minor in this field will be expected to show credit in English 1A, 1B and three units elected from 2, 3, 4A, 4B, 52A, 52B in the lower division; three units elected from English 130A or 130B, the remaining three units elected from English 101, 117, 130A, or 130B in the upper division.

Candidates for the academic teaching major in the field of general sciences must meet the general requirements of fourteen units of natural science in the lower division including Biological Science 10A-10B, unless taken in high school. The remaining units to complete the major must be chosen so as to include a year course in a biological science unless Biological Science 10A-10B is taken in college, a year course in physics and a concentration of twelve units, at least six of which are upper division, in one major subject (botany, chemistry, physics, zoology).

Candidates for an academic teaching major in the field of the social sciences must meet the general requirements of fourteen units of social science in the lower division including Geography 2 and Social Science 1

The remaining twenty units must be chosen so as to include a year course of six units in history in either the lower or upper division and a concentration of twelve units, at least six of which are upper division, in one major subject (economics, geography, history, political science). The following courses in economics may not be applied to the teaching major in social science: 14A-14B, 18A-18B, 125A-125B, 140, 160A-160B, 161, 162, 163, 164, 165.

Women candidates for an academic teaching minor in the field of physical education will be expected to show credit in Physical Education 36A, 36B, 37 or 38A, 38B, 53, and Hygiene 2 in the lower division; six units elected from Physical Education 102, 157A, 157B, 158, 161, 164, 170, 178A, or 178B in the upper division.

Combinations of Credentials

In the case of students seeking more than one teaching credential, the curriculum for each credential must be completed in full, with only such exceptions as are indicated in the requirements. After July 1, 1936, for each credential in addition to one, at least 12 additional units of credit must be earned, this work to be in electives in nonprofessional fields only, after the basic curriculum requirements have been satisfied.

Scholarship

The number of grade points acquired in this college by the candidate for a degree must be equal to the number of units attempted. (See page 28 for an explanation of scholarship grades and grade points.)

Preparation for Graduate Work

Students who take the A.B. degree with only a special credential and who contemplate doing graduate work for a master's degree in an academic field at another institution of higher learning, will find it advantageous to use their electives to lay a foundation for that work. A student who plans to do graduate work in the field of his academic teaching major is advised so to arrange his electives as to complete the liberal arts major to avoid the necessity of making up an undergraduate deficiency.

MEMORANDA FOR STUDENTS WHO WISH TO BECOME CANDIDATES FOR TEACHING CREDENTIALS

The college offers curricula leading to the A.B. degree with the following teaching credentials:

1. Elementary school credential authorizing the holder to teach any or all subjects in all grades of any elementary school in California.
2. Junior high school credential authorizing the holder to teach any or all subjects in the seventh, eighth, and ninth grades of any elementary or secondary school in California.
3. Special secondary credential in art authorizing the holder to teach art subjects in any grade of the public schools of California.
4. Special secondary credential in business education authorizing the holder to teach commercial subjects in any grade of the public schools of California.
5. Special secondary credential in music authorizing the holder to teach music in any grade of the public schools of California.
6. Special secondary credential in physical education authorizing the holder to teach physical education in any grade of the public schools of California.

For the requirements for the School Administration and School Supervision Credentials see page 52 of this bulletin.

On the following pages of this bulletin are outlines of the curricular requirements for the A.B. degree with each of the credentials enumerated above. These outlines are for the purpose of guiding the student in his preparation for professional work. Any serious lack of preparation or scholarship in any of the subjects therein indicated, whether it be in the student's high school or lower division college record may require additional work in that subject if, in the opinion of the Committee of Admission to Upper Division Teacher Training, the candidate's record shows the need of such additional work.

Freshmen and students transferring to the college from another collegiate institution should take the following tests at their earliest opportunity: (Consult the College Calendar for the dates when these tests are to be given.)

1. College Aptitude Test.
2. Subject A Test (English Composition).
3. Fundamentals Test (Reading, Spelling, Arithmetic and Handwriting).
4. Speech Test.

The College Aptitude Test is for the purpose of assisting the student in overcoming his weaknesses and guiding him in his future work in the college. *In case of failure to pass either of the last three tests enumerated above the student should immediately consult with his adviser relative to the remedial work he must do in that subject and arrange his program accordingly.*

Several faculty members who are acquainted with teacher training curricula have been designated as teacher training advisers. There are advisers for lower division (freshman-sophomore) and upper division (junior-senior) students. The student should secure the assistance of

one of the advisers for his group in making out his program of studies and learn to rely upon his adviser and the information contained in this bulletin and not to depend upon unreliable sources of information.

The subjects in the first two years of a given teacher training curriculum are quite similar to those being taken by most college students. In the last semester of the sophomore year the student who wishes to begin his professional work in teacher training must apply for admission to upper division teacher training. This is done by going to the office of the secretary of this committee and filing an application. The remaining procedure is explained under the general heading Admission to Upper Division Teacher Training, found on page 32 of this bulletin. The student's record for his first two years in college is of considerable weight in securing admission to teacher training, so it is of importance to him to make the most of his opportunities. The committee will not be impressed favorably by excuses from students who have deficiencies in their records.

It is recommended that the student give careful consideration to the teaching field in which he is most interested and best fitted to function and concentrate upon preparation in that field rather than scatter his efforts by attempting to secure several types of teaching credentials. After July 1, 1936, the A.B. degree and only one teaching credential may be secured upon completion of a given curriculum and one hundred and twenty-four units of work; each additional credential will require a minimum of twelve additional units of work.

Finally, the student's admission to college is predicated upon the assumption that he has reached a stage of maturity that will enable him to pursue his daily work and preparation in the courses in which he is enrolled without any considerable supervision and direction from his instructors. He will have a greater degree of freedom in the use of his time than he has had hitherto. One of the challenges of college life is the ability to meet and assume the responsibilities found therein in a satisfying way. The student may easily fall into the habit of justifying his failures or he may seek intelligently to determine their real causes and proceed to correct them. A definite budgeting of the student's time, both while at home and on the campus, will be of great assistance to him. If the student finds that his work is unsatisfactory for any considerable period of time he should consult with his dean in order to try to solve this difficulty.

CURRICULA LEADING TO TEACHING CREDENTIALS

A.B. Degree With Elementary School Credential

FRESHMAN YEAR

First Semester—	Units
Art 6A, Structure-----	2
Biological Science 10A, ¹ Science of Life-----	3
English 1A or 1B, ² Freshman English-----	1 or 3
Geography 1, Elements (Natural Science)-----	3
Physical Education 1A or 36A-----	$\frac{1}{2}$
Electives ^{3, 4} -----	6 or 4

Second Semester—

Biological Science 10B, ¹ Science of Life-----	3
English 1B, Freshman English, or 2 or 3 Sophomore English-----	3
Geography 2, Regions (Social Science)-----	3
Music 1A, Music Reading and Ear-training-----	2
Physical Education 1B or 36B-----	$\frac{1}{2}$
Electives ^{3, 4} -----	5

32

SOPHOMORE YEAR

First Semester—

English 2 or 3, Sophomore English (unless taken in freshman year)	3
Physical Education 1C or 37, Games and Rhythms for the elementary school-----	$\frac{1}{2}$

Second Semester—

Physical Education 1D or 38A-----	$\frac{1}{2}$
Physical Education 53, Physical Education in the Elementary School, or Physical Education 54, Administration of Physical Education-----	2

Either Semester—

Art 61A, Elementary Crafts-----	2
Art 61B, Elementary Crafts-----	2
Psychology 1A, General-----	3
Social Science 1, Pol., Soc. and Econ. Problems-----	3
Electives to meet requirements in Natural Sciences, Social Sciences, and minors ^{3, 4, 5} -----	16-19

32

¹ Possible substitutions for the requirement in Biol. Science 10A-10B

1. High school Biology (year course with laboratory work).

2. Botany 2A-2B and Zoology 1A-1B—16 units.

3. High school Botany and Zoology 1A-1B.

4. High school Zoology and Botany 2A-2B.

5. High school Botany and high school Zoology.

6. Biological Science 1 and Physical Science 1—6 units.

² Depending on result of Subject A test.

³ See Summary of Basic Requirements for total requirements in English Natural Sciences, and Social Sciences.

⁴ Unless minor is English, General Science or Social Sciences.

⁵ If 6 units in minor taken in freshman year, none needed in sophomore year.

JUNIOR YEAR

First Semester—	Units
Education 147, Education Practicum—Lower Levels-----	10
Psychology 102, Genetic-----	3
Second Semester—	
Education 108, Educational Measurements-----	3
Education 148, Education Practicum—Upper Levels-----	10
Either Semester—	
Physical Education 151, ¹ Health Education, or elective-----	2 or 3
Political Science 101, ¹ American Institutions (or substitute), or elective -----	2 or 3
	<hr/> 30-32

SENIOR YEAR

First Semester—	
Education 116, Practice Teaching ² -----	6 or 7½
Either Semester—	
Education 106, ³ Philosophy of Education-----	3
Electives including two minors ⁴ (for the year)-----	21 or 19½
	<hr/> 30

SUMMARY

Art 6A, 61A, 61B-----	6
Education 106, 108, 116, 147, 148-----	32 or 33½
English -----	6 or 7
Music 1A -----	2
*Natural Sciences (incl. Biol. Science 10A-10B and Geog. 1)-----	14
Physical Education 1A-B-C-D or 36A-36B, 37, 38A; 53; 151-----	6
Political Science 101-----	2
Psychology 1A, 102-----	6
**Social Sciences (including Social Science 1 and Geography 2)---	14
Electives, including two academic teaching minors-----	36 or 33½
	<hr/> 124

¹ May be deferred until senior year and elective taken, if desired.

² Candidates for the elementary school credential in combination with any other type of credential are required to do not less than 6 units of practice teaching in the elementary school.

³ Not required if student is meeting requirements for junior high school or special credential also.

⁴ If 6 units in minor taken in junior year, none needed in senior year.

* See page 33.

** See page 34.

A.B. Degree With Junior High School Credential

FRESHMAN YEAR

First Semester—	Units
Biological Science 10A, ¹ Science of Life-----	3
English 1A or 1B ² -----	1 or 3
Geography 1, Elements (Natural Science)-----	3
Physical Education 1A or 36A-----	$\frac{1}{2}$
Electives, ³ including major and minor ⁴ -----	8 or 6

Second Semester—

Biological Science 10B, ¹ Science of Life-----	3
English 1B or 2 or 3-----	3
Geography 2, Regions (Social Science)-----	3
Physical Education 1B or 36B-----	$\frac{1}{2}$
Electives, ³ including major and minor ⁴ -----	7
	32

SOPHOMORE YEAR

First Semester—

English 2 or 3, Sophomore English (unless taken in freshman year)-----	3
Physical Education 1C or 38A-----	$\frac{1}{2}$
Psychology 1A, General-----	3

Second Semester—

Physical Education 1D or 38B-----	$\frac{1}{2}$
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Either Semester—

Social Science 1, Pol., Soc. and Econ. Problems-----	3
Electives, ³ including major and minor ⁵ (for the year)-----	22-25
	32

JUNIOR YEAR

First Semester—

Education 108, Educational Measurements-----	3
Education 125, ⁶ Elementary School Curriculum-----	3
Political Science 101, American Institutions (or substitute)-----	2
Psychology 102, Genetic-----	3

¹ Possible substitutions for the requirements in Biological Science 10A-10B:

1. High school Biology (year course with laboratory work).
2. Botany 2A-2B and Zoology 1A-1B—16 units.
3. High School Botany and Zoology 1A-1B.
4. High School Zoology and Botany 2A-2B.
5. High School Botany and High School Zoology.
6. Biological Science 1 and Physical Science 1—6 units.

² Depending on result of Subject A test.

³ See Summary of Basic Requirements for total requirement in English Natural Sciences, and Social Sciences.

⁴ Unless major or minor is English, General Science or Social Science

⁵ If 6 units in minor taken in freshman year, none needed in sophomore year.

⁶ Not required if student is meeting requirements for elementary credential also.

Second Semester—	Units
Education 116, Practice Teaching-----	3

Either Semester—	
Curriculum in Field of Academic Major-----	2
Physical Education 151, Health Education-----	2
Electives, including major and minor (for the year)-----	12
	30

SENIOR YEAR

First Semester—	
Education 116, Practice Teaching-----	3

Second Semester—	
Education 121, Principles of Secondary Education-----	3

Either Semester—	
Education, elective -----	3
Electives, including major and minor ¹ (for the year)-----	21
	30

SUMMARY

Education 108, 116, 121, 125, Curriculum in Field of Academic Major, and elective in Education-----	20
English -----	6 or 7
*Natural Sciences (including Biological Science 10A-10B and Geog. 1) -----	14
Physical Education 1A-B-C-D or 36A-36B, 38A-38B; 151-----	4
Political Science 101-----	2
Psychology 1A, 102-----	6
**Social Sciences (including Social Science 1 and Geography 2)-----	14
Electives, including academic teaching major and minor----	58 or 57
	124

¹ If 6 units in minor taken in junior year, none needed in senior year.

* See page 33.

** See page 34.

A.B. Degree With Special Credential in Art

This course leads to the A.B. degree and to the Special Secondary Credential in Art which entitles the holder to teach art in senior high, junior high, and elementary schools.

LOWER DIVISION

	Units
Art 6A-6B, Structure-----	4
Art 61A, 61B, Elementary Crafts-----	4
Education 19, Art in the Elementary School-----	2
English 1A, ¹ 1B, 2 or 3, Freshman and Sophomore English-----	6 or 7
†Natural Sciences -----	14
Physical Education 1A-1B, 1C-1D (men); 36A-36B, 38A-38B (women) -----	2
Psychology 1A, General-----	3
†Social Sciences, including Social Science 1, Political, Social and Economic Problems -----	14
Electives, including additional art for major and courses for academic teaching minor ² -----	14-15
	64

UPPER DIVISION

Education 116, Practice Teaching (4 units in special field)-----	6
Education 119, Art in the Junior High School-----	2
Education 121, Principles of Secondary Education-----	3
Education 125, ³ Elementary School Curriculum-----	3
Education elective (suggested: Education 106 or 108 or 130)-----	3
Political Science 101, American Institutions (or substitute)-----	2
Electives, including additional art and academic teaching minor--	41
	60

SUMMARY

Art major-----	40 ⁴
Education -----	19
English -----	6 or 7
*Natural Sciences -----	14
Physical Education -----	2
Political Science 101, American Institutions-----	2
Psychology -----	3
**Social Sciences (including Social Science 1)-----	14
Electives, including academic teaching minor-----	23-24
	124

¹ Depending on result of Subject A test.

² Unless minor is English, general science, or social science.

³ Not required if student is meeting requirements for elementary credential also.

⁴ Maximum credit allowable in art.

† See Summary of Basic Requirements.

* See page 33.

** See page 34.

A.B. Degree With Special Credential in Business Education

This course leads to the A.B. degree and to the Special Secondary Credential in Business Education, which entitles the holder to teach business subjects in senior high and junior high schools.

In addition to the following academic requirements, satisfactory evidence of one-half year, or 1000 hours of approved experience in the field named in the credential must be submitted. For the credentials in the General Business Subfield twelve semester hours of work above the requirements for a bachelor's degree may be offered in lieu of the six months of full-time experience. At least six semester hours of the twelve must be in business or economics.

ACCOUNTING AND SECRETARIAL SUBFIELDS

LOWER DIVISION		Units
Economics 1A-1B, Principles -----		6
Economics 14A-14B, Accounting -----		6
English 1A, Freshman English, or elective ¹ -----		1
Geography 1, Elements (Natural Science)-----		3
Geography 2, Regions-----		3
Mathematics 2, Mathematics of Investment-----		3
*Natural Sciences -----		11
Physical Education 1A-1B, 1C-1D (men), or 36A-36B, 38A-38B (women) -----		2
Secretarial Training A, Business Mathematics-----		1
Secretarial Training 1A-1B, Typewriting-----		6
Secretarial Training 5A-5B, Stenography-----		10
Secretarial Training 6A, Advanced Stenography-----		3
Secretarial Training 10A, Business Correspondence-----		3
Social Science 1, Pol., Soc. and Econ. Problems-----		3
Speech Arts 1A, Fundamentals of Public Speaking-----		3
		<hr/> 64

¹ Depending on result of Subject A test.

* See page 33.

UPPER DIVISION		Units
Economics 11, Economic History of the United States-----		3
Economics 18A-18B, Commercial Law-----		6
Economics 100, Modern Economic Thought, or a course in Consumer Economics -----		3
Economics 140, Statistical Methods-----		3
Economics 160A-160B, Advanced Accounting-----		6
Economics 161, Cost Accounting-----		3
Economics 163, Machine Accounting-----		3
Education 21, Penmanship Methods-----		2
Education 116, Practice Teaching-----		6
Education 121, Principles of Secondary Education-----		3
Education 130, Educational Psychology-----		3
Education 160, Commercial Education -----		2
Education 163, Stenography -----		2
Education 164, Bookkeeping -----		2
Education 165, Typewriting-----		2
Geography 141, Economic Geography, or a course in Foreign Trade		3
Political Science 101, American Institutions (or substitute)-----		2
Psychology 1A, General-----		3
Secretarial Training 3A, Office Methods and Appliances-----		3
		60

If the Secretarial subfield only is elected, Mathematics 2 and Education 164 and all upper division courses in accounting may be omitted, but 12 units in upper division courses in commerce must be included.

If the accounting subfield is elected, Secretarial Training 5A-5B and Education 163, 165 may be omitted.

GENERAL BUSINESS SUBFIELD

LOWER DIVISION

Units

Economics 1A-1B, Principles	6
Economics 11, Economic History of the United States.....	3
Economics 14A-14B, Accounting	6
Economics 18A-18B, Commercial Law.....	6
English 1A, Freshman English, or elective ¹	1
Geography 1, Elements (Natural Science).....	3
Geography 2, Regions.....	3
Mathematics 2, Mathematics of Investment.....	3
Merchandising 25A, Salesmanship.....	2
Merchandising 25B, Advertising.....	2
*Natural Sciences	11
Physical Education 1A-1B, 1C-1D (men), or 36A-36B, 38A-38B (women)	2
Secretarial Training A, Business Mathematics.....	1
Secretarial Training 1A-1B, Typewriting.....	6
Secretarial Training 10A, Business Correspondence.....	3
Social Science 1, Pol., Soc. and Econ. Problems.....	3
Speech Arts 1A, Fundamentals of Public Speaking.....	3

64

UPPER DIVISION

Economics 100, Modern Economic Thought, or a course in Consumer Economics	3
Economics 135, Money and Banking.....	3
Economics 140, Statistical Methods	3
Economics 163, Machine Accounting	3
Education 21, Penmanship Methods.....	2
Education 116, Practice Teaching	6
Education 121, Principles of Secondary Education.....	3
Education 130, Educational Psychology.....	3
Education 160, Commercial Education	2
Education 161, Junior Business Training.....	2
Education 165, Typewriting	2
Geography 141, Economic Geography, or a course in Foreign Trade	3
Political Science 101, American Institutions (or substitute).....	2
Psychology 1A, General.....	3
Secretarial Training 3A, Office Methods and Appliances.....	3
Electives (including a minimum of 5 units in the upper division, 3 units of which must be in commerce).....	17

60

¹ Depending on result of Subject A test.

* See page 33.

A.B. Degree With Special Credential in Music

This course leads to the A.B. degree with a Special Secondary Credential in Music which entitles the holder to teach music in senior high, junior high, and elementary schools.

LOWER DIVISION

	Units
Aesthetics 1A-1B, Survey of Music-----	4
Education 17, ¹ Music in the Elementary School (sophomore year) --	2
English 1A, ² 1B, 2 or 3, Freshman and Sophomore English-----	6 or 7
Natural Sciences ³ -----	14
Physical Education 1A-1B, 1C-1D (men); 36A-36B, 38A-38B ¹	2
(women) -----	3
Psychology 1A, General (sophomore year)-----	3
Social Sciences, ³ including Social Science 1, Political, Social and Economic Problems -----	14
Music for major (see below) and electives, including courses for an academic teaching minor ⁴ -----	18 or 19
	64

UPPER DIVISION

Aesthetics 102A-102B, History of Music-----	2
Education 116, Practice Teaching (at least 4 units in Music)-----	9
Education 121, Principles of Secondary Education-----	3
Education 127, Music in the Secondary School-----	2
Education 145, Org. and Adm. of Music Education-----	2
Political Science 101, American Institutions (or substitute)-----	2
Music for major (see below) and electives, including courses for an academic teaching minor ⁴ -----	40
	60

MUSIC

Freshman year:

1B, Music Reading and Ear Training-----	2
---	---

Sophomore year:

1C-1D, Music Reading and Ear Training-----	4
4A-4B, Elementary Harmony-----	6

Junior and senior years:

105A-105B, Advanced Harmony-----	6
106A-106B, Applied Harmony-----	6

¹ Unless also a candidate for a general elementary school credential.

² Depending on result of Subject A Test.

³ See Summary of Basic Requirements, page 33.

⁴ See Major and Minor requirements, page 34.

APPLIED MUSIC ¹

	Units
16, 116, A, B, C, D, Orchestral Instruments ² (including 19 or 119, A and B, Instrumental Music)-----	6
17, 117, A, B, C, D, Voice ² (including 20A, 20B, Vocal Music)---	6
18, 118, A, B, C, D, Piano ² -----	4
	<hr/> 40

SUMMARY

Aesthetics -----	6
Education -----	18
English -----	6 or 7
Music major -----	40 ³
Natural Sciences -----	14
Physical Education -----	2
Political Science 101, American Institutions-----	2
Psychology 1A -----	3
Social Sciences -----	14
Electives, including an academic teaching minor-----	18 or 19
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¹ See page 110.

² Unless exempted by examination.

³ Maximum credit allowable in music for degree.

A.B. Degree With Special Credential in Physical Education

This course leads to the A.B. degree and to the Special Secondary Credential in Physical Education which entitles the holder to teach physical education in senior high, junior high, and elementary schools.

MEN

LOWER DIVISION

	Units
Biol. Science 10A-10B, Science of Life (unless taken as a year course in high school with at least a grade of B)-----	6
or	
Zoology 1A, General-----	4
English 1A, ¹ 1B, 2 or 3, Freshman and Sophomore English-----	6 or 7
Hygiene 1-----	2
†Natural Sciences-----	5 or 7
Physical Education:	
1A-1B, 1C-1D-----	2
6A, Tennis-----	$\frac{1}{2}$
30, Emergencies-----	1
62A, 62B, Gymnastic Activities-----	4
66, Playing Rules of Modern Games-----	1
72, Principles-----	2
Sports and Athletics ² -----	3
Psychology 1A, General (sophomore year)-----	3
Red Cross Swimming Test-----	$\frac{1}{2}$
†Social Sciences, including Social Science 1, Political, Social and Economic Problems-----	14
Speech Arts 1A, Fundamentals of Public Speaking-----	3
Zoology 20, Anatomy and Physiology-----	3
Electives, including courses to meet minor requirements ³ -----	7-8
	64

UPPER DIVISION

Education 116, Practice Teaching-----	6
Education 121, Principles of Secondary Education-----	3
Education 125, Elementary School Curriculum-----	3
Education, elective-----	6
Physical Education:	
151, Health Education-----	2
154, Organ. and Admin. of Physical Education-----	2
155, Applied Anatomy-----	2
156A-156B, Sports Methods-----	4
166, Technique of Officiating-----	2
169, Technique of Teaching Activities-----	2
171, Community Recreation-----	2
180, Theory of Coaching Football-----	2
Sports and Athletics ² -----	3

¹ Depending on result of Subject A test.

² Men majoring in Physical Education must actively participate in three sports each year.

³ Unless minor is English, general science, or social science.

† See Summary of Basic Requirements.

MEN—Continued

UPPER DIVISION—Continued

Units

Political Science 101, American Institutions (or substitute)-----	2
Psychology 102, Genetic (first semester, junior year)-----	3
Zoology 114A, Genetics-----	2
Electives -----	14

60

SUMMARY

Education -----	18
English -----	6 or 7
Hygiene 1 -----	2
Speech Arts 1A -----	3
*Natural Sciences (including Biol. Science 10A-10B or substitute and Zoology 20)-----	14
Physical Education major-----	35
Political Science 101, American Institutions-----	2
Psychology -----	6
**Social Sciences (including Social Science 1)-----	14
Zoology 114A -----	2
Electives, including academic teaching minor-----	21-22

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* See page 33.

** See page 34.

A.B. Degree With Special Credential in Physical Education

This course leads to the A.B. degree and to the Special Secondary Credential in Physical Education which entitles the holder to teach physical education in senior high, junior high, and elementary schools.

WOMEN

LOWER DIVISION

	Units
Aesthetics 1A, Survey of Music-----	2
Biol. Science 10A-10B, Science of Life (unless taken in high school)	6
or	
Zoology 1A, General-----	4
English 1A, ¹ 1B, 2 or 3, Freshman and Sophomore English-----	6 or 7
Hygiene 2, Personal and Civic-----	2
*Natural Sciences -----	5-7
Physical Education:	
36A, Rhythmics, Formal Activities, Games-----	$\frac{1}{2}$
36B, Athletic Games-----	$\frac{1}{2}$
37, Games and Rhythms for the Elementary School-----	$\frac{1}{2}$
38B, Recreational Activities-----	$\frac{1}{2}$
53, Physical Education in the Elementary School-----	2
55A or 55B, Swimming—Beginning or Intermediate-----	$\frac{1}{2}$
55C, Life Saving-----	$\frac{1}{2}$
56, Tennis -----	$\frac{1}{2}$
57, Golf -----	$\frac{1}{2}$
59, Archery -----	$\frac{1}{2}$
Psychology 1A, General-----	3
Sociology 50, General-----	
or	
Anthropology 54, Social-----	3
*Social Sciences, including Soc. Science 1, Political, Social and Economic Problems -----	11
Speech Arts -----	3
Zoology 20 -----	3
Electives, including academic teaching minor ² -----	13-14

63 $\frac{1}{2}$

UPPER DIVISION

Education 108, Educational Measurements-----	3
Education 116, Practice Teaching -----	6
Education 121, Principles of Secondary Education-----	3
Education 125, Elementary School Curriculum-----	3
Education 106, Philosophy -----	
or	
Education 140, Educational Statistics -----	
or	
Education 142, Educational Sociology -----	3
Physical Education:	
102, Emergency and Safety Programs-----	1
151, Health Education -----	2

¹ Depending on result of Subject A test.

² Unless minor subject is English, general science, or social science.

* See Summary of Basic Requirements.

WOMEN—Continued

UPPER DIVISION—Continued

Physical Education—Continued	Units
153, Administration of Secondary Physical Education-----	2
154, Applied Anatomy -----	2
157A-157B, Sports Methods-----	4
158, Stunts and Tumbling-----	$\frac{1}{2}$
160, Formalized Activities -----	2
161, Folk Dancing -----	2
164, Dancing -----	2
169, Technique of Teaching Activities-----	3
170, Recreational Leadership -----	2
173, Principles -----	2
175, Current Problems -----	2
177, Individual Program Adaptations-----	2
185, Techniques of Individual and Dual Sports-----	3
Political Science 101, American Institutions (or substitute)-----	2
Psychology 102, Genetic (first semester, junior year)-----	3
Upper Division Zoology-----	3
Additional Course in Upper Division Zoology, or other subject for minor ¹ -----	3
	<hr/> 60 $\frac{1}{2}$

SUMMARY

Aesthetics -----	2
Education -----	18
English -----	6 or 7
Hygiene -----	2
Natural Sciences (including Biological Science 10A-10B or sub- stitute, and Zoology 20)-----	14
Physical Education major-----	38
Political Science 101, American Institutions-----	2
Psychology -----	6
*Social Sciences (including Social Science 1 and Sociology 50 or Anthropology 54) -----	14
Speech Arts -----	3
Zoology (upper division)-----	3-6
Electives, including academic teaching minor unless Zoology is chosen -----	12-16
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¹If another subject is chosen the program must be arranged to include total of 6 units of upper division work in that subject.

* See page 33.

** See page 34.

DIPLOMA OF GRADUATION

A diploma of graduation carrying with it any of the credentials the college is authorized to grant or any combination of them may be granted to the holder of a bachelor's degree from an accredited college, upon the completion of a minimum of 24 units. Ordinarily at least one semester of residence during the academic year is required subsequent to securing the degree; the remainder of the work may be in summer session or, in the case of students who had attended the college prior to attaining the degree elsewhere, in credit earned as an upper division student. The candidate for a diploma must offer the equivalent of all of the requirements listed in the curriculum for the A.B. degree with the credentials sought.

ADMINISTRATION AND SUPERVISION CREDENTIALS

(Effective until September 1, 1936)

The State Board of Education has authorized this college to make recommendations for the issuance of School Administration and School Supervision credentials for holders of elementary and junior high school credentials who have completed the required 15 units beyond the requirements for the teaching credential and who have completed two years successful teaching experience. *But holders of general secondary credentials must take the required courses in and receive recommendation from an accredited graduate school, even though they may wish to qualify for administrative or supervisory work only on the elementary or junior high school level.*

In order to secure the recommendation of this college for either one of these credentials, the following number of the 15 required units must be completed at this institution:

1. A.B. degree graduates of this college—6, subsequent to graduation.
 2. Other graduates of this college—15.
 3. Graduates of other institutions—9.
 4. County certified teachers—12.
-

Candidates desiring to qualify for administration and supervision credentials after September 1, 1936, will be required to meet the credential requirements as outlined in State Department of Education Bulletin 12, Regulations Governing Granting of Credentials and Certificates for Public School Service in California. Further information will be furnished by the college upon request by the applicant.

DEGREE REQUIREMENTS

II

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF ARTS IN THE LIBERAL ARTS CURRICULA AND FOR THE JUNIOR CERTIFICATE

The liberal arts curricula lead to the bachelor of arts degree with majors in art, chemistry, commerce, economics, English, geography, history, mathematics, music, physical science, physics, Romance languages and zoology and qualify for graduate work in these fields in recognized American colleges and universities. Completion of the requirements of these curricula also enables the graduate to satisfy undergraduate requirements or the general secondary credential which, with graduate work, will enable the holder to teach in a senior high school or junior college.

Total Units, Length of Time, and Residence

The A.B. degree will be granted on the completion of 124 units¹ of college work, representing a four-year course, and the junior certificate on the completion of 62 units. Certain requirements for the degree may be met by courses taken in the high school. *No high school course, however, can be used to reduce the amount of college work required for the junior certificate or for the degree.* Not less than 54 units must be earned in the junior and senior years; at least 30 units of work at this college; twenty-four of these residence units must be taken with the rank of senior, at least twelve of which must be taken in the fall or spring semester of the final year before graduation.

SUBJECT MATTER REQUIREMENTS IN THE LOWER DIVISION

Physical Education	2 units
Hygiene 1 or 2	2 units
English	6 units
Foreign Languages	15 units
Mathematics A and B or high school algebra and geometry	0-4 units
Social Sciences	14 units
Natural Sciences	14 units
Year-course in foreign language or mathematics, or philosophy (in addition to the foregoing minimum requirements in foreign language and mathematics)	6 units
Lower division subjects for the minors, unless included in one of the above requirements, see page 54	12 units
Lower division subjects required for the major. See page 55. lectives to make total of 62 units.	

¹ For definition of units see page 28.

Explanation of Lower Division Requirements

English: This requirement may be satisfied either in the freshman year or in the sophomore year. To be chosen from the following year courses: English 1B-2 or 3, 4A-4B, 52A-52B, 56A-56B.

Foreign Languages: At least 15 units in not more than two languages are required in the lower division, except that only 10 units in a modern language are required in the commerce major. Each year of high school work in a foreign language will be counted in satisfaction of 3 units of this requirement. A minimum of two high school year-courses is acceptable in any language except Latin, in which a year-course is permissible.

Social Sciences: Fourteen units are required as follows:

(a) Social Science 1.

(b) Additional courses to meet the total requirement must be chosen from the following list and must include one of the year course marked with an asterisk: Anthropology 50A-50B*, 51A-51B, 52, 53, 54, 55; Economics 1A-1B*, 11, 18A-18B; Geography 2; History 4A-4B*, 8A-8B*; Political Science 1A-1B*; Sociology 50.

Natural Sciences: Fourteen units are required as follows:

(a) Biological Science 1 or a year course in high school or college biology, botany, physiology or zoology.

(b) Physical Science 1 or a year course in high school or college chemistry or physics.

(c) Additional courses to meet the total requirement must come from the following list and must include one of the laboratory course marked with an asterisk:

High school botany, chemistry,* physics,* physiology, zoology, advanced biology. (A maximum of two years, 6 units, of high school courses offered exclusively in the third or fourth year may be used to meet the natural science requirement.)

Astronomy 1, 11; Biological Science 1, 10A-10B*; Botany 2A, 2B*, 4; Chemistry 1A*, 1B*, 5*, 7-8*; Geography 1 or 3 (only one course may be counted toward requirement); Geology 1, 1B*; Physical Science 1; Physics 2A-2B; 3A-3B,* 1A-1B, 1C-1D,* Zoology 1A,* 1B.*

Mathematics: High school elementary algebra or Mathematics A or high school plane geometry or Mathematics B.

Additional Year Course: In addition to the foregoing minimum requirements in foreign language and mathematics, 6 units must be chosen from one of the following groups:

Modern foreign language: Any two consecutive college courses.

Latin: Two years of high school courses in Latin.

Mathematics: 1A-1B; 3A-3B; 7A-7B; C and 3A; G and 7A. Students with the Commerce major may take Mathematics C and G, or equivalent and 2.

Philosophy: 5A-5B.

Minors: A minimum of 12 units in each of two minor subjects required. At least 6 units in each minor shall be in upper division.

courses completed in the junior and senior years. The entire 12-unit requirement for a minor may be met with upper division courses provided these courses have no lower division prerequisites. The prerequisites for upper division courses in various departments may be found in the course descriptions on pages 66-123. Minors are available in the following subjects: art, botany, chemistry, economics, education, English, foreign language, geography, geology, history, mathematics, music, physics, political science, psychology, zoology. Information concerning a minor in education is to be found on page 62.

Major: The specific requirements for the degree in each major field are listed in the paragraphs following.

Electives: Among both elective and required subjects, a total of not more than 12 units of the applied and vocational courses listed below will be counted toward the junior certificate or the A.B. degree, in both the lower and upper division combined:

Agriculture 20; Art 61A, 61B; Merchandising 24A-24B, 25A-25B, 26; all courses in education, except those listed as available for credit toward a minor (see page 62); Journalism 53A-53B, 153A-153B; Library Science 10; all courses in Applied Music; Physical Education, all courses except 1A-1B, 1C-1D, 36A-36B, 38A-38B, 30, 72, 102, 161, 164; Secretarial Training, all courses.

Liberal Arts Majors—Lower Division Subjects

The student is advised to choose his major as early in his college course as practicable so that he may be able to plan his work according to the major requirements. Failure to meet the lower division requirements of the major department before the junior year may make it impossible to satisfy the upper division requirements within the normal period of two years.

Art

Eighteen units carefully chosen from lower division art courses to meet the stated prerequisites for upper division work. These shall include Art A-B, 6A-6B, or the accepted equivalents, and six elective units in art; Aesthetics 5, 50.

Chemistry

Chemistry 1A-1B with an average grade of C or better, Chemistry 5 or 7-8, Physics 2A-2B and 3A-3B or their equivalent, Mathematics 7A-7B or the equivalent, and a reading knowledge of German. Students planning to do graduate work in chemistry or to transfer to another college, and there work for a degree with a major in chemistry, are advised to take Physics 1A-1B-1C-1D and Mathematics 3A-3B-4A-4B in place of the courses listed above.

Commerce

Economics 1A-1B, 11, 14A-14B (6 units), 18A-18B; English 1B-2 or 3; Geography 1-2; Mathematics C and G, or equivalents, and 2; History 4A-4B or 8A-8B or Political Science 1A-1B.

Economics

Economics 1A-1B and at least one of the following: Political Science 1A-1B; History 4A-4B; History 8A-8B; Psychology 1A and 1B or 4A or 4B; Geography 1 and 2; Anthropology 50A-50B. Recommended: Sociology 50; Economics 14A-14B, 18A-18B.

English

English 1B-2 or 3 and six units from 52A, 52B, 56A, 56B. Recommended: A reading knowledge of German or French.

Foreign Languages

Group major: French A-B, C-D, and Spanish A-B, C-D.

The group major requirements are based on the assumption that the student will have taken courses in the high school, equivalent to the college course in elementary French or Spanish.

Geography

Geography 1, 2, 3 and Geology 1A-1B. Recommended: A reading knowledge of French or German.

History

History 4A-4B, or 8A-8B, and either Political Science 1A-1B, Economics 1A-1B, or Geography 1 and 2. No student shall enroll in more than one lower division history course during a semester. Students who wish to major in history and who have had less than two years of European history in high school must take History 4A-4B.

Mathematics

Mathematics 3A-3B, 4A-4B. With permission of the department, 7A-7B may replace 3A-3B. Recommended: Physics, surveying, descriptive geometry, astronomy and a reading knowledge of French and German.

Music

Music 1A-1B, 4A-4B; and 2 units of electives in music; Aesthetics 1A-1B. The electives in music in both lower and upper division must include at least 6 units in Applied Music (study of voice, or an instrument), of which at least 3 units must be in piano. See page 110 for regulations regarding Applied Music.

Physical Science

Fulfillment of the departmental requirements for upper division work in at least two of the following sciences: Chemistry, geology, physics. Recommended: A reading knowledge of French and German.

Physics

Physics 1A-1B-1C-1D, Mathematics 3A-3B, 4A-4B, and Chemistry 1A-1B, or their equivalents. Recommended: A reading knowledge of French and German.

Zoology

Zoology 1A, 1B, and high school chemistry or Chemistry 1A. Recommended: Chemistry 1B, French, German, Botany 2A, 2B, 4, and 5.

SUBJECT MATTER REQUIREMENTS IN THE UPPER DIVISION

Psychology 1A (unless elected in lower division)-----	3 units
Political Science 101-----	2 units
First minor (minimum in upper division courses)-----	6 units
Second minor (minimum in upper division courses)-----	6 units
Major -----	-----

Electives to make a minimum total of 40 units in upper division courses and a grand total of 124 units for the degree.

Explanation of Upper Division Requirements

Required Number of Units in Upper Division Courses: At least 40 of the units completed during the junior and senior years, among required and elective subjects, shall be in upper division courses (see definition under heading Courses of Instruction); junior standing requires 60 units of credit. Introductory courses open to first-semester freshmen when taken in the junior or senior year may involve either additional work or reduction in the number of units of credit.

Political Science 101: Political Science 113 or 152 or History 171A-171B or 173A-173B will be accepted as substitutes for this requirement.

Minors: See explanation regarding minor subjects on page 54.

Major: The specific requirements in each major field are listed in the paragraphs following.

Electives: See restrictions concerning the choice of applied and vocational courses, as explained on page 55.

Major Requirements in the Various Fields

Art

Not less than twenty-four units of upper division art. These shall include Art 112A, 115A-115B, 152A, 195, and twelve upper division elective units in art, and 2 units of upper division work in an allied subject.

It is recommended that students in meeting degree requirements and in choosing free electives, select from the following courses; English 1A-4B, 106A-106B, 107A-107B, 117; French A-B; History 4A-4B, 111A-111B.

Chemistry

A minimum of twenty upper division units in chemistry including Chemistry 110A-110B and 111A-111B. The choice of a related minor and the organization of the course of a major student must follow a definite plan approved by the department.

Commerce

Economics 121, 140, 199 and 16 units additional chosen in one of the following groups:

A. Accounting: Econ. 160A-160B, 161, 163, and 4 units in electives in economics.

B. Banking and Finance: Econ. 133, 134, 135, and 7 units in electives in economics.

C. Marketing and Merchandising: Econ. 123, 125, 171, and 7 units in electives in economics.

Geog. 141 may be used in the electives under A, B, C.

Economics

Required: Economics 100, 140 and 199, with 7 units selected from the following: Economics 121, 123, 127, 128, 131, 133, 134, 135, 152, and 171. Electives: Nine upper division units in economics. Economic geography may be substituted for three elective units in economics.

English

Twenty-four units in upper division English to be selected and arranged under supervision of the department. Not over four units may be in composition. A reading knowledge of German or French.

Foreign Languages

Twenty-four units of upper division work in French and/or Spanish; or eighteen units in French and/or Spanish, and six units in related subjects, arranged in consultation with the chairman of the department. At least a C average in all courses. Recommended: Geography 118.

Geography

Twenty-four units of upper division work in geography or 18 units in geography and six units in related subjects arranged in consultation with the chairman of the department.

History

Twenty-four units in upper division courses in history to be arranged in consultation with the chairman of the department. The student must, in his senior year, enroll in History 199.

Mathematics

Twenty-four units of upper division work in mathematics, or eighteen units in mathematics and six units in closely related subjects, arranged in consultation with the chairman of the department. Mathematics 111, 112, and 119 should be included in every major. Related courses offered by other departments include statistical methods (Economics 140), mathematics in the junior high school (Education 112) and certain upper division courses in chemistry and physics.

Music

Music 105A-105B, 106A-106B, and 10 units of upper division elective courses in music; and 2 units of upper division work in an allied subject. (See statement concerning Applied Music under lower division requirements.)

Physical Science

Twenty-four units of upper division work in two or more of the physical sciences, chemistry, geology, and physics, with a minimum of six units in each of two of these sciences.

Physics

Twenty-four units of upper division work in physics including Physics 105A-105B and 107A-107B. Six of the twenty-four units may be elected in related subjects on consultation with the chairman of the department.

Zoology

(1) At least a C average in upper division major courses. (2) Twenty-four units of upper division courses in zoology or 18 in the major subject and six in related courses in botany, organic chemistry, physics, physiology and bacteriology.

PREPROFESSIONAL CURRICULA

As shown below, the liberal arts curricula can be adapted to correspond to the typical courses of study preliminary to the professional courses of training for law, medicine, dentistry, nursing, optometry, pharmacy, social service, teaching, journalism, agriculture, and engineering. (For a complete statement of the requirements for the junior certificate and the degree in these curricula, see pages 53-59.)

Prelegal Curricula

(Two-Year, Three-Year and Four-Year Curricula)

- (a) The entrance requirements of law colleges range from two years to three and four years of prelegal work. The lower division requirements of the liberal arts curricula should be met in full whether the curriculum extends over a period of two, three or four years.
- (b) The following lower division electives meet the recommendations of standard American law colleges for a broad and liberal education in those fields of human knowledge commonly involved in human affairs and those which have cultural and disciplinary values. Liberal arts subjects similar to subjects offered in law colleges should ordinarily be omitted from the prelegal curricula. History 4A-4B, 6 units; Economics 1A-1B, 6 units; Economics 14A-14B, 6 units; Sociology 50, 3 units; Political Science 1A-1B, 6 units; Speech Arts 1B, 3 units; English 52A-52B, 6 units; Psychology 1A, 3 units; Psychology 4A, 2 units; Philosophy 5A-5B, 6 units.
- (c) The three-year prelegal curriculum requires the completion of 93 units of work. Some of the introductory courses should be continued in the upper division if the student is to acquire mastery and confidence in any field. The following are listed as examples of upper division courses that meet the needs of general study in the three-year or the four-year curriculum. History 111A-111B, or 121A-121B, 6 units; History 151A-151B, 6 units; History 171A-171B, 6 units; Economics 121, 3 units; Economics 133, 3 units; Economics 151, or 100, 3 units; Economics 171, 3 units; Political Science 111, 3 units; Political Science 113, 3 units; Speech Arts 101B, or 1B, 3 units; Philosophy 120, 3 units.
- (d) The four-year curriculum requires the completion of 124 units of work. A student who is pursuing a four-year prelegal curriculum must major in a specific field in his junior and senior years and must meet all upper division requirements for the A.B. degree in the liberal arts curricula.

Premedical Curricula

(Two-Year, Three-Year and Four-Year Curricula)

- (a) The entrance requirements of medical colleges range from two years to three and four years of premedical work. The lower division

requirements of the liberal arts curricula should be met in full whether the curriculum extends over a period of two, three or four years.

- (b) The program of elective and required subjects in the lower division should include the following subjects: Zoology 1A-1B, 8 units; Chemistry 1A-1B, 10 units; English 1B-2 or 3, 6 units; French or German, 9 units (this requirement may be satisfied in the high school); Zoology 100, 4 units (this upper division subject should be taken in the sophomore year only when necessary to satisfy medical colleges requiring only two years of premedical work).
- (c) The three-year premedical curriculum requires the completion of 93 units of work. The program in the upper division of either the three-year or the four-year curriculum should include the following subjects: Physics 2A-2B, 6 units; Physics 3A-3B, 2 units (the physics courses may be taken in the lower division); Chemistry 5, 3 units; Chemistry 107-108, 7 units; Zoology 100, 4 units.
- (d) The four-year curriculum requires the completion of 124 units of work. A student who is pursuing a four-year premedical curriculum should major in chemistry or zoology in his junior and senior years and must meet all upper division requirements for the A.B. degree in the liberal arts curricula.

Predental Curricula

(One-Year Curriculum)

The following subjects should be taken to qualify for entrance to dental colleges requiring only one year of predental work. The one-year curriculum requires the completion of 31 units of work. English 1B-2 or 3, 6 units; Chemistry 1A-1B, 10 units; Zoology 1A-1B, 8 units; Social Science 1, 3 units; Physical Education 1A-1B or 36A-36B, 1 unit; Electives, 3 units.

(Two-Year Curriculum)

- (a) The lower division requirements of the liberal arts curricula should be met in full to satisfy dental colleges requiring two years of predental work.
- (b) The program of elective and required subjects in the lower division should include Chemistry 1A-1B, 10 units; Chemistry 7-8, 6 units; Zoology 1A-1B, 8 units; and English 1B-2 or 3, 6 units.

Prenursing Curriculum

(Two-Year Curriculum)

- (a) The lower division requirements of the liberal arts curricula should be met in full.
- (b) The program of elective and required subjects in the lower division should include Chemistry 1A-1B, 10 units; Economics 1A-1B, 6 units; Psychology 1A-1B, 6 units; Zoology 20 (Anatomy and Physiology), 3 units; Bacteriology 1 (General Bacteriology and Microbiology), 4 units (Summer Session). (It is planned to increase the unit-value of Zoology 20 as soon as possible to meet completely the California requirements for a junior certificate in prenursing.)

Preoptometry Curriculum

(Two-Year Curriculum)

- (a) The lower division requirements of the liberal arts curricula should be met in full.
- (b) The program of elective and required subjects in the lower division should include Chemistry 1A-1B, 10 units; English 1B-2 or 3, 6 units; Mathematics 7A, or equivalent, 4 units; Physics 2A-2B, 6 units; Physics 3A-3B, 2 units; Psychology 1A, 3 units; Zoology 20, 3 units.

Prepharmacy Curriculum

(Two-Year Curriculum)

- (a) The lower division requirements of the liberal arts curricula should be met in full.
- (b) The program of elective and required subjects in the lower division should include Chemistry 1A-1B, 10 units; Botany 2A-2B, 8 units; German A-B, 10 units; Mathematics D, 1 unit, or equivalent; Mathematics C, 2 units, or equivalent; Chemistry 5, 3 units; Chemistry 105, 3 units; Chemistry 7-8, 6 units; Physics 2A-2B, 6 units; Physics 3A-3B, 2 units; English 1B-2 or 3, or Speech Arts 1A-1B, 6 units.

Presecondary Curriculum

(Four-Year Curriculum)

Completion of the requirements of this curriculum enables the graduate to satisfy the undergraduate requirements for the general secondary teaching credential, which, with graduate work, will enable the holder to teach in a senior high school or junior college.

- (a) The lower division requirements of the liberal arts curricula should be met in full.
- (b) This curriculum requires the completion of 124 units of work. In arranging his program to meet the upper division requirements for the A.B. degree in the liberal arts curricula, the student should include a major in a subject or field of subjects usually taught in high school and a minor in the field of education chosen from the following courses: Ed. 121,* Principles of Secondary Education; Ed. 106, Philosophy of Education; Ed. 107,* History of Education; Ed. 137, Comparative Education; Ed. 130,* Educational Psychology; Ed. 140, Elementary Educational Statistics; Ed. 142, Educational Sociology; Psychology 102,* Genetic. In order to conform to the usual university requirements, this minor should include the courses marked with an asterisk.

Curricula Preliminary to Social Service

(Two-Year and Four-Year Curricula)

- (a) The lower division requirements of the liberal arts curricula should be met in full whether the curriculum extends over a period of two years or four years.
- (b) The program of elective and required subjects in the lower division should include Social Science 1, 3 units; Sociology 50, 3 units; Economics 1A-1B, 6 units; Speech Arts 1A, 3 units; Speech Arts

- 1B, 3 units; Biological Science 10A-10B, or Zoology 1A, 6 or 4 units; Psychology 1A, 3 units; Psychology 4A, 2 units; Anthropology 54, 3 units; Mathematics D, or equivalent, 1 unit; Mathematics C, or equivalent, 2 units.
- c) The four-year curriculum requires the completion of 124 units of work. A student who is pursuing a four-year curriculum preliminary to social service must major in a specific field in his junior and senior years and must meet all upper division requirements for the A.B. degree in the liberal arts curricula.
- d) The program of elective and required subjects in the upper division should include as many of the following subjects as possible: Economics 134, 3 units; Economics 151, 3 units; Economics 140, or Education 140, 3 units; Education 106, 3 units; Education 107, 3 units; Education 130, 3 units; History 163, 3 units; History 171A-171B, or 173A-173B, 6 units; Physical Education 30, or 102, 1 unit; Physical Education 151, 2 units; Physical Education 171, or 170, 2 units; Psychology 102, 3 units; Psychology 118, 2 units; Psychology 145, 3 units; Political Science 152, 3 units.

Courses in social work offered by the college, summer session, or extension division should be chosen upon the recommendation of the faculty adviser for the social service curricula.

Curricula Preliminary to Journalism

A broad, cultural education, and specific information and understanding in fields with which the journalist is largely concerned, are essential to an effective training for journalism.

(Two-Year and Four-Year Curricula)

- a) The two-year and four-year curricula demand the completion of the lower division requirements of the liberal arts curricula in full.
- b) The program of elective and required subjects in the lower division should include the following subjects: History 4A-4B, or 8A-8B, 6 units; Economics 1A-1B, 6 units; Political Science 1A-1B, 6 units; Psychology 1A, 3 units; Psychology 4A, 2 units; English 1B-2 or 3, 6 units; French or German, 9 units (this requirement may be satisfied in the high school); Journalism 51A-51B, 6 units; Journalism 53A-53B, 2-6 units.
- c) A student who desires to build a broad foundation for graduate work in journalism is required to complete 124 units of work. He must major in a specific field, preferably English, history or economics in his junior and senior years and must meet all upper division requirements for the A.B. degree in the liberal arts curricula.
- d) The program of elective and required subjects in the upper division should include as many of the following subjects as possible: English 106A-106B, or 107A-107B, 4 units; English 130A-130B, 6 units; Economics 100, 3 units; History 145A-145B, or 146A-146B, 6 units; History 171A-171B, or 173A-173B, 6 units; Political Science 111, 3 units; Political Science 113, 3 units; Journalism 100, 3 units; Journalism 153A-153B, 2-6 units.

Preagricultural Curricula

- (a) The two-year curricula require the completion of 66 units of work for junior standing in recognized colleges of agriculture.
- (b) Requirements of the curriculum in plant and animal sciences; Chemistry 1A-1B, 10 units; Chemistry 7-8, 6 units; Botany 2A-2B, 8 units; Physics 2A-2B, 6 units; Zoology 1A-1B, 8 units; Geology 1A, 4 units; English 1B-2 or 3, or Speech Arts 1A-1B, 6 units; Economics 1A-1B, 6 units; Botany 7, 2 units; Social Science 1, 3 units; Hygiene 1 or 2, 2 units; Physical Education, 2 units; Mathematics A, B, C, D, 7 units, or equivalents; electives, to make a total of 66 units of work. The summer course in Bacteriology 1 (General Bacteriology and Microbiology), 4 units, is recommended.
- (c) Requirements of the curriculum in forestry: Chemistry 1A-1B, 10 units; Botany 2A-2B, 8 units; Botany 7, 2 units; English 1B-2 or 3, or Speech Arts 1A-1B, 6 units; Mathematics 7A-7B, 8 units; Surveying 1A-1B, 6 units; Physics 2A-2B, 6 units; Geology 1A, or Geography 1, 4 or 3 units; Economics 1A-1B, 6 units; Social Science 1, 3 units; Hygiene 1 or 2, 2 units; Physical Education, 2 units; electives, to make a total of 66 units of work.

Preengineering Curricula

- (a) The following list of subjects meets the requirements for the first year of a four-year curriculum in civil engineering, mechanical engineering, electrical engineering, or mining engineering: Mathematics 3A-3B, 6 units; Chemistry 1A-1B, 10 units; Physics 1A-1B, 6 units; English 1B, 3 units; Physical Education, 1 unit; elective, 3 units.
- (b) The following list of subjects partially meets the requirements for the second year of a four-year curriculum in civil engineering, mechanical engineering, and electrical engineering; Mathematics 4A-4B, 6 units; Physics 1C-1D, 6 units; Surveying 1A, 3 units; Industrial Arts 21, 3 units; Industrial Arts 23, 2 units; Geology 1A, 4 units; Physical Education, 1 unit.
- (c) Additional requirements in civil engineering: Industrial Arts 25, 3 units; Industrial Arts 28, 3 units; Surveying 1B, 3 units; Surveying 3, 1 unit.
- (d) Additional requirements in mechanical and electrical engineering: Industrial Arts 22, 3 units; Mathematics 124 or 119, 3 units.

SPECIAL JUNIOR COLLEGE CURRICULA

Information relating to special junior college curricula such as aeronautics mechanics, commerce, etc., may be secured in a separate bulletin.

COURSES OF INSTRUCTION

Figures in parentheses indicate the unit value of the course.

Courses numbered from 1 to 99 are lower division (freshman or sophomore) courses; those numbered 100 and above are upper division (junior or senior) courses.

Freshmen are not admitted into upper division courses. First semester sophomores who have an average grade of not less than 2.0 grade points and second semester sophomores who have an average grade of not less than 1.5 grade points may enroll in an upper division course provided they were registered in at least 12 units in the preceding semester. It is understood that ordinarily the instructor will be consulted by sophomores wishing to take upper division courses. In such cases an upper division course will count as lower division credit.

One "unit" represents an hour recitation or lecture, together with the required preparation, or three hours laboratory work each week for a semester of 18 weeks.

The semester for offering courses is designated as follows: (1) Fall; (2) Spring; (3) Fall and Spring; (4) Year course, beginning either Fall or Spring, (5) Year course. Courses designated as "Year course" begin in the Fall, but those given in the list below may be taken in the reverse order (i.e., the second semester of the course may be taken before the first semester) or the second semester may be taken alone. In the case of other year courses, students who have completed the equivalent of the first semester's work may seek permission from the instructor to take the second half of the course. Single semester courses having the letter B as a part of the number (as for example, Art 61B) are not supposed to follow another course of the same number unless so indicated in the prerequisites to the course.

YEAR COURSES OPEN TO REGISTRATION IN THE MIDDLE OF THE YEAR

Aesthetics 1A-1B	Spanish 110A-110B
Aesthetics 102A-102B	History 4A-4B
Anthropology 50A-50B	History 8A-8B
Anthropology 51A-51B	History 111A-111B
Economics 18A-18B	History 121A-121B
Economics 160A-160B	History 145A-145B
English 4A-4B	History 146A-146B
English 52A-52B	History 151A-151B
English 56A-56B	History 156A-156B
French 101A-101B	History 171A-171B
French 105A-105B	History 173A-173B
French 107A-107B	Merchandising 24A-24B
French 110A-110B	Political Science 1A-1B
French 111A-111B	Speech Arts 55A-55B
Spanish 101A-101B	Speech Arts 55C-55D
Spanish 102A-102B	Speech Arts 155A-155B
Spanish 104A-104B	Speech Arts 156A-156B
Spanish 105A-105B	

Although the College fully expects to carry out the arrangements planned in the list of courses, it reserves the right to make changes.

Classes in the courses listed in which the enrollment does not come up to the minimum number set by the State Department of Education may not be offered or may be postponed for a semester or a year.

AESTHETICS

LOWER DIVISION COURSES

1A-1B. Survey of Music.

SPRINGSTON

Correlation of music and other arts. Designed to stimulate enjoyment of music by developing intelligent listening. The elements of music, its structure, folk music of all countries, musical instruments, and the contributions of the best known composers, with some biographical study of these men. Compositions are presented by orthophonic recording and by class members. Attendance at a number of local concerts is required. No previous musical training or background is necessary. Music majors are required to complete additional assignments for full credit.

Year course (2-2).

5. Fundamentals of Art.

JACKSON

An illustrated lecture course involving a study of aesthetic meaning and its relation to the structure of art products. Designed to increase both understanding and appreciation of the visual world in general and of the fine arts in particular.

Fall and Spring (2).

50. Appreciation and History of Art.

JACKSON

A survey of aesthetic development as revealed in the painting, sculpture, architecture, and handicrafts from dawn of art to the Renaissance. Illustrated.

Fall (3).

UPPER DIVISION COURSES

102A-102B. History of Music.

SPRINGSTON

The various movements in the development of music as related to other arts. The chronological development of the art of music, with particular emphasis on the larger works. Considerable attention is given to the work of modern composers. Many symphonic works are studied from the orchestral scores. Music majors are required to complete additional assignments for full credit. Prerequisite: Aesthetics 1A-1B. Previous study of harmony and instrumentation is desirable.

Year course (1-1).

150. Appreciation and History of Art.

JACKSON

The period from the Renaissance through the modern school, treated in the same manner as in Aesthetics 50.

Spring (2).

AGRICULTURE

20. Nature Study.

SKILLING

A course to show the student what material, selected from the various sciences, may be woven into a nature study course suitable for children, with special reference to school and home gardening and agriculture. The

subject matter covered is partly drawn from the physical sciences, astronomy, physics, etc. (for the upper grades), and partly from life studies of the plant and animal world (for lower grades). May be credited as natural science only for students majoring in Education.

Fall and Spring (3).

ANTHROPOLOGY

LOWER DIVISION COURSES

50A-50B. Man's Evolutionary History.

ROGERS

Origin and antiquity of man. Theories of human descent. Classification of races. Origin and early development of civilization.

Year course (3-3).

51A-51B. The American Indian.

ROGERS

Pre-Columbian cultures of the American Indian. The origin and migration of New World peoples. Industries, arts, crafts, social organization, religion and other phases of American Indian civilization. The first semester presents a general introduction to New World culture with especial attention to the tribes north of Mexico, while the second semester is concerned primarily with the civilizations of Mexico, Central and South America.

Year course (3-3). (Offered in 1936-1937 and alternate years.)

52. Primitive Cultures (Ethnology).

ROGERS.

History and cultural development of primitive races of mankind. Consideration given to industries, arts, social organization, and religion of living primitive peoples.

Fall (3). (Offered in 1937-1938 and alternate years.)

53. Primitive Religious Culture.

ROGERS

Beliefs and ritual of primitive man. Magic and religion. Forms of animism and polytheism. Primitive mentality and the supernatural.

Spring (3). (Offered in 1937-1938 and alternate years.)

54. Social Anthropology.

ROGERS

An anthropological study of social institutions in primitive and civilized societies. The evolution of family organization, religion, property right, and government traced in elementary and advanced civilization. Ritualism and education considered as processes of culture conservation and social control.

Fall and Spring (3).

55. Culture History.

ROGERS

The prehistoric and historic development of culture types contributing to Western European and American civilization of today. Egyptian, Semitic, Indo-European, and Oriental cultures examined in light of their bearing on contemporary civilization. Methods of culture spread examined and applied to specific traits. Spengler's theory of history and similar doctrines reviewed.

Fall and Spring (3).

ART

Candidates for a teaching credential in art should refer to the statement "Admission to Upper Division Teaching Training" on page 32.

Lower division preparation for the liberal arts major in art and for the junior certificate: Eighteen units carefully chosen from lower division art courses to meet the stated prerequisites for upper division work. These shall include Art A-B, 6A-6B, or the accepted equivalents, and six elective units in art; Aesthetics 5, 50.

Liberal arts major (upper division): Not less than twenty-four units of upper division art. These shall include Art 112A, 115A-115B, 152A, 195, and twelve upper division elective units in art, and two units of upper division work in an allied subject.

It is recommended that the students in meeting degree requirements and in choosing free electives, select from the following courses: English 4A-4B, 106A-106B, 107A-107B, 117; French A-B; History 4A-4B; 111A-111B.

For courses in Appreciation and History of Art and Fundamentals of Art, see Aesthetics, page 66.

LOWER DIVISION COURSES

Art Appreciation

8. Appreciation of Costume and Home Furnishing. BORSUM

Design and materials of modern dress; relation to the figure and personality; suitability and expressiveness. Principles underlying the use of materials and furnishings in the home; harmony of color, proportion, texture, and arrangement. Lectures, discussion, and demonstrations.

Fall (2).

Design

6A. Structure. BORSUM

Fundamentals of design and composition and theory of color. Basic course used as a prerequisite for all advanced art work.

Fall and Spring (2).

6B. Structure (continued) BORSUM

Original work in creative design with special stress on modern tendencies. Prerequisite: Art 6A.

Fall and Spring (2).

7. Line, Color and Display. BORSUM

The principles of line, color and arrangement applied to merchandise and to store and window display. Prerequisite: Art 6A.

Spring (3).

11A. Industrial Design. HAMANN

Original design in its relationship to various fields—ceramics, furniture, textiles, jewelry, and books. A survey and study of materials and processes in machine and hand production. Prerequisite: Art 6A-6B.

Fall (2).

11B. Advanced Industrial Design.

HAMANN

Advanced problems with emphasis upon the related factors of material and production. Application of problems designed. Prerequisites: Art 6A-6B, 11A.

Spring (2).

14A. Lettering.

BORSUM

Fundamental art principles applied to lettering. Practice for quick, accurate lettering; original problems using letters as design. Prerequisite: Art 6A.

Fall (2).

14B. Posters and Commercial Art.

BORSUM

The application of lettering to posters, newspaper and magazine advertising, and other forms of commercial art. The study of composition combined with lettering and special study of modern tendencies in publicity. Prerequisites: Art 6A, 14A.

Spring (2).

52A. Stage Design.

PATTERSON

Theory of line, color, and lighting in relation to the stage. Original sets and costumes developed on a miniature stage. Study of the development of the modern art of the theater. Upper division credit will be given in this course to students of junior standing upon the completion of extra theme work and additional original problems. Prerequisite: Art 6A.

Fall (2).

94. Costume Design.

PATTERSON

Original problems in designing modern costumes. A study of line, color, texture, type, and suitability to the wearer and to the occasion; foreign and historic influence on dress. Prerequisite: Art 6A.

Fall (2).

Drawing, Painting, and Sculpture

A-B. Freehand Drawing

HAMANN

Semester I: Problems involving perspective to develop ability to draw still life, furniture, exteriors, interiors, and the like.

Semester II: Outdoor sketching of landscape and figure, and studio work from still life and costume pose. Emphasis on composition and technique in the handling of various mediums, pencil, pen and ink, charcoal, pastel, and water color.

Year course (2-2).

15A-15B. Life Drawing.

JACKSON

Drawing from the nude model. Does not duplicate the former course in painting, numbered Art 15A-15B.

Year course, beginning either Fall or Spring (2-2).

16A-16B. Painting.

JACKSON

Semester I: Composition of still life and flower forms in water color.
Semester II: Landscape and more advanced composition in water color.

Prerequisite: Art A-B. No credit for students having completed Art 15A-15B, Painting.

Year course, beginning either Fall or Spring (2-2).

17A-17B. Sculpture.

HORD

Problems in clay modeling and in wood and stone carving, including original design and anatomical studies of the human figure. Particular stress laid on the qualities of materials as related to art form.

Year course, beginning either Fall or Spring (2-2).

Crafts

61A. Elementary Crafts.

HAMANN

Problems in elementary craft work, bookbinding, pottery, weaving, and puppetry (including the dramatization and production of a puppet play).
Prerequisite: Art 6A, when possible.

Fall and Spring (2).

61B. Elementary Crafts.

HAMANN

Problems involving the application of design principles to various fields—pottery, textiles, weaving, metal work, wood-carving, and book-binding. **Prerequisite:** Art 6A.

Fall and Spring (2).

UPPER DIVISION COURSES

Design

106A-106B. Advanced Design.

BORSUM

Advanced problems in design, color and technique. Planned for students interested in commercial design, illustration and industrial design.
Prerequisites: Art A, 6A-6B; Aesthetics 5.

Year course (2-2).

112A-112B. Organization.

JACKSON

Imaginative organization of space by means of color, dark and light, perspective, and textures of various materials. **Prerequisites:** Art A-B, 6A-6B, and if possible 15A-15B or 106A.

Year course (2-2).

112C. Illustration.

JACKSON

Composition fulfilling the requirements of book illustration from poetry, imaginative tales, and legends, in black and white and color. **Prerequisite:** Art 112A.

Spring (2). (Offered in odd-numbered years.)

152A. Stage Design.

PATTERSON

See Art 52A.

152B. Stage Costume.

PATTERSON

Costume studied in relation to drama, opera and dance. Original designs for mood and character. Practical problems in designing costumes and accessories for college productions. A brief history of costume from the Egyptian to the modern time. **Prerequisites:** Art 6A, 52A or 152A.

Spring (2).

195. Home Decoration.

PATTERSON

House planning and landscaping. Designing furniture and interiors. Study of period styles and modern decoration. Illustrated lectures and original problems. Prerequisites: Art A, 6A.

Spring (2).

Drawing, Painting, and Sculpture

115A-115B. Life Drawing and Painting.

JACKSON

Drawing and painting from nude and costume models.

Year course, beginning either Fall or Spring (2-2).

115C-115D. Advanced Life.

JACKSON

Painting from nude and costume models and advanced composition in oil. Portraiture. Prerequisite: Art 115A-115B.

Year course, beginning either Fall or Spring (2-2).

116A-116B. Advanced Painting.

JACKSON

Painting in water color and oils from still life and landscape, stressing composition and technique. Prerequisite: Art 16A-16B.

Year course, beginning either Fall or Spring (2-2).

117A-117B. Sculpture.

HORD

See Art 17A-17B.

ASTRONOMY

Lower division preparation in astronomy for advanced work and for the junior certificate: Astronomy 1, Plane Trigonometry, Mathematics 3A-3B, 4A-4B, Physics 2A-2B and 3A-3B, or 1A-1B and 1C-1D; a reading knowledge of French or German.

1. Descriptive Astronomy.

SKILLING

A cultural course planned to give as comprehensive a view as possible of the solar system and the stars. Only calculations of an elementary nature. Especial attention to the methods and instruments by means of which astronomical knowledge has been gained. A six-inch Alvin Clarke telescope used for observation. Demonstrations given with a large spectrometer; also a good selection of lantern slides used to illustrate various topics. Prerequisites: Elementary algebra and plane geometry.

Fall and Spring (3).

3. Surveyor's Course in Elementary Practical Astronomy.

The principles of spherical trigonometry and astronomy adapted to the needs of engineering students. Computing. Prerequisites: Surveying 1A; Surveying 1B to be taken concurrently.

Spring (1).

5. Historic Development of Astronomy.

SKILLING

The leading facts now known in astronomy in the light of circumstances attending their discovery. Prerequisite: Astronomy 1.

Spring (3).

11. Modern Astronomy.

SKILLING

Stars and nebulae. Modern methods and instruments used in the observatory. Theory of matter as it applies to such studies. Prerequisites: Astronomy 1 and a knowledge of physics.

Fall (3).

BIOLOGICAL SCIENCES

(General Biological Science, Botany, Zoology)

General students who wish to take only one or two courses in this department should register for Biological Science 1, 10A-10B, Zoology 113C, 114A or 114B, Botany 4 or 5 (see below for prerequisites for each course).

Lower division preparation in botany for advanced work and for the junior certificate: Botany 2A, 2B, 4, 5, and Chemistry 1A.

Lower division preparation for the liberal arts major in zoology and for the junior certificate: Zoology 1A, 1B, and high school chemistry or Chemistry 1A-1B. Recommended: German, French, Botany 2A, 2B, 4.

Liberal arts major in zoology: (1) At least a C average in upper division major courses. (2) Twenty-four units of upper division courses in zoology or eighteen in the major subject and six in related courses in botany, organic chemistry, physics, physiology, and bacteriology.

Students preparing to teach science in the junior high school should try to include courses in zoology, botany, physics, chemistry (at least high school chemistry), and Education 120. The following are also desirable: geography, geology, anthropology, astronomy, and upper division biological sciences.

Fees: A fee is required in all laboratory courses in this department. The fee covers the cost of materials used. For breakage and extra material in addition to the estimated need an extra charge must be made.

LOWER DIVISION COURSES

1. Man and His Biological World.

M. E. JOHNSON

A general biology course with lectures, discussion, and demonstrations three hours a week. For students who are not required to take Biological Science 10A-10B and who prefer a shorter course with no laboratory work. Not open to students who have taken 10A-10B or any combination of Zoology 1A-1B or high school zoology with Botany 2A-2B or high school botany. Students who have credit for this course and later elect 10A-10B receive 4 units of credit for 10A-10B instead of 6.

Spring (3).

10A-10B. Science of Life.

Lectures: M. E. JOHNSON

Laboratory: CROUCH, HARVEY

The fundamentals of plant and animal biology, with elementary work in human physiology and heredity. Laboratory work supplements the lectures and includes a study of living and preserved material. Aim of the course to acquaint the student with the basic facts of biology. Designed not only to give the general student an acquaintance with living things and their relationships, but also to furnish the prospective teacher with an adequate background for nature study teaching. Two lectures and one three-hour laboratory period per week. Designed for

those who do not expect to specialize in zoology or botany, but not open for credit to students who have taken Zoology 1A, or Botany 2A. Students who have taken 10A-10B may elect Zoology 1B or Botany 2A, 2B for credit.

Year course (3-3).*

BACTERIOLOGY

199. Special Study.

Reading or work other than is outlined in the regular courses. (Bacteriology 1, General, and 102, Advanced Bacteriology, or 103, Current Problems in Hygiene and Bacteriology, are offered in the summer session). Admission only by consent of the instructor with whom the work is to be done and the chairman of the Biological Science department. Credit and hours to be arranged in each case. Open to students who have completed at least 6 units of bacteriology with grades of A or B.

BOTANY

LOWER DIVISION COURSES

2A. General.

HARVEY

Fundamentals of structure and general behavior of seed plants. Two lectures or recitations and two three-hour laboratory periods per week. Fall (4).

2B. General

HARVEY

A continuation of 2A treating morphology and relationship of the lower plants and including an introduction to classification of seed plants. Lectures and laboratory as in 2A.

Spring (4).

2C. California Plants

HARVEY

Classification and ecology of representative orders of wild flowers, trees, and chaparral of the San Diego region, including practice in the use of keys. One lecture and three hours laboratory per week. Occasional Saturday field trips.

Spring (2).

2D. Plant Physiology.

HARVEY

The activities of plants, including food manufacture, absorption, conduction, transpiration, respiration, growth, and movement. Two lectures and six hours of laboratory per week. Prerequisite: Biol. Science 10A-10B or Botany 2A.

Fall (4). (Offered in even-numbered years.)

UPPER DIVISION COURSES

102. Plant Geography.

HARVEY

Lectures and field work on the principles of geographical distribution of plants. Prerequisite: Botany 2A-2B, or 4, or equivalent.

Fall (2). (Offered in odd-numbered years.)

104. Taxonomy.

HARVEY

Identification, classification and distribution of representative orders

of flowering plants. Six hours per week of lectures, laboratory, and field work. Prerequisites: Botany 2A-2B, 4.

Spring (3). (Offered in even-numbered years.)

199. Special Study.

INSTRUCTORS OF THE DEPARTMENT
(M. E. JOHNSON in charge)

Reading or work other than is outlined in the above courses. Admission by consent of the instructor with whom the work is to be done and the head of the department. Credit and hours to be arranged in each case. Open to students who have completed at least ten units of lower division work in the department with a grade of A or B.

Fall and Spring (1 or 2).

ZOOLOGY

LOWER DIVISION COURSES

1A. General

HARWOOD

An introduction to animal biology dealing with structure, functions, and evolution of animal life. Laboratory work supplementing the lectures and based on the study and observation of living and preserved material (frogs and invertebrates). Valuable to the general student as well as to the biology specialist, acquainting one with the fundamental facts and theories of biology as they pertain to animal life. Two lectures or recitations and two three-hour laboratory periods per week.

Fall (4).

1B. General.

HARWOOD

A continuation of 1A. The structure, relationships, and classification of the chordates. Two lectures and two three-hour laboratory periods per week. Prerequisite: Zoology 1A or Biological Science 10B.

Spring (4).

20. Anatomy and Physiology.

CROUCH

An elementary course in human anatomy and physiology. Prerequisite: High school biology, or Biol. Science 10A-10B or Zoology 1A-1B. Lectures three hours per week.

Fall and Spring (3). (Offered in even-numbered years.)

UPPER DIVISION COURSES

100. Embryology.

M. E. JOHNSON

The development of vertebrates as illustrated by the frog, chick, and pig. Six hours of laboratory and two hours of lecture per week. Prerequisite: Zoology 1B or Biol. Science 10B.

Spring and Fall (4). (Offered in odd-numbered years.)

106. Comparative Anatomy of the Vertebrates.

CROUCH

Dissection, study and comparison of organ systems of typical vertebrates. Two hours per week of lecture and six hours of laboratory. Prerequisite: Zoology 1B or Biol. Science 10B.

Fall (4). (Offered in odd-numbered years.)

112. Marine Zoology.

M. E. JOHNSON

Designed to acquaint the student with the many interesting animals found along the beaches in the San Diego region. Identification, distribution, associations, structure, and to some extent, behavior and life histories of the organisms. Frequent collecting trips to the beach and study of the living animals in the laboratory. Prerequisite: A laboratory course in elementary biology or zoology.

Fall (3). (Offered in odd-numbered years.)

113B. Ornithology.

CROUCH

The study and identification of birds, especially those of the Pacific coast and the San Diego region. Six hours per week of lectures, laboratory, or field excursions. Prerequisite: Zoology 1B, or Biol. Science 10B.

Spring (3). (Offered in odd-numbered years.)

113C. Field Study of Birds.

CROUCH

The study and identification of the birds of the San Diego region. Three hours of laboratory or field work per week.

Spring (1). (Offered in even-numbered years.)

114A. Genetics.

HARWOOD

General introductory course designed to acquaint the student with the fundamental principles of heredity and variation. Special attention given to the Mendelian interpretations of the facts of inheritance. Two lectures per week.

Fall (2).

114B. Evolution.

JOHNSON

The development of theories of evolution. Two lectures or discussion periods per week.

Spring (2). (Offered in odd-numbered years.)

121. Entomology.

HARWOOD

The classification, life history, structure, and physiology of insects. Prerequisite: Zoology 1A or Biol. Science 10B. Two hours of lecture and six hours of laboratory per week.

Spring (4). (Offered in odd-numbered years.)

130. Readings in Biology.

HARWOOD

Readings from a suggested bibliography with informal class discussion of topics. Subjects discussed will include history of biology, biological principles, ecology, economic zoology, zoogeography, breeding habits, animal behavior.

Spring (2). (Offered in even-numbered years.)

199. Special Study.

INSTRUCTORS OF THE DEPARTMENT
(M. E. JOHNSON in charge)

Reading or work other than is outlined in the above courses. Admission only by consent of the instructor with whom the work is to be done and the head of the department. Credit and hours to be arranged in each case. Open to students who have completed at least ten units of work in the department with a grade of A or B.

Fall and Spring (1 or 2).

CHEMISTRY

Lower division preparation for the liberal arts major in chemistry and for the junior certificate: Chemistry 1A-1B with an average grade of C or better, Chemistry 5 or 7-8, Physics 2A-2B and 3A-3B or their equivalent, Mathematics 7A-7B or the equivalent, and a reading knowledge of German. Students planning to do graduate work in chemistry or to transfer to another college, and there work for a degree with a major in chemistry, are advised to take Physics 1A-1B-1C-1D and Mathematics 3A-3B-4A-4B in place of the courses listed above.

Liberal arts major (upper division): A minimum of twenty upper division units in chemistry including Chemistry 110A-110B and 111A-111B. The choice of a related minor and the organization of the course of the major student must follow a definite plan approved by the department.

For requirements for liberal arts major in physical science, see pages 56, 59.

LOWER DIVISION COURSES

1A-1B. General Chemistry.

MESSNER, ROBINSON

The general principles and laws of chemistry, and a description of the elements and their compounds. Two lectures, one quiz and two laboratory periods per week. The laboratory work in the second semester consists of work in qualitative analysis. Prerequisites: At least two years of high school mathematics. Recommended: High school chemistry and physics.

Year course (5-5).

5. Quantitative Analysis.

MESSNER

The principles of gravimetric and volumetric analysis. Discussions of the theory of quantitative analysis and practice in the standardization of reagents and analysis of samples. One lecture and two laboratory periods per week. Prerequisite: Chemistry 1A-1B.

Fall (3).

7-8. Organic Chemistry.

ROBINSON

A general consideration of the carbon compounds (both aliphatic and aromatic) and their derivatives; their synthesis, constitution and properties, and the principles involved. Two lectures and one laboratory period per week first semester; one lecture and two laboratory periods per week second semester. Prerequisite: Chemistry 1A-1B.

Year course (3-3).

UPPER DIVISION COURSES

105. Advanced Quantitative Analysis.

MESSNER

Advanced work in the theory and practice of volumetric, gravimetric and electro-analysis. One lecture and two laboratory periods per week. Prerequisite: Chemistry 5.

Spring (3).

107-108. Organic Chemistry.

ROBINSON

An upper division course covering the same field as Chemistry 7-8 but including some more advanced work. Two lectures and one laboratory

period per week first semester; two lectures and two laboratory periods per week second semester. Prerequisite: Chemistry 1A-1B.

Year course (3-4).

110A-110B. Physical Chemistry.

MESSNER

Lectures and problems on theoretical principles of chemistry. Prerequisites: Chemistry 5 and Physics 1A-1B or 2A-2B. With the approval of the instructor, advanced courses in physics may be substituted for Chemistry 5.

Year course (3-3).

111A-111B. Physical Chemistry—Laboratory

ROBINSON

Physico-chemical problems and measurements. Two laboratory periods per week. Prerequisites: Credit or registration in Chemistry 110A-110B, Physics 1A-1B or 2A-2B, and calculus. With the consent of the instructor, advanced courses in physics may be substituted for Chemistry 5.

Year course (2-2).

112. Industrial Analysis.

ROBINSON

A laboratory course including the analysis of fuels, petroleum products, water, and gas. Prerequisite: Chemistry 5.

Spring (2). (Offered in even-numbered years.)

114. Biochemistry.

MESSNER

An introductory lecture course covering the carbohydrates, proteins, fats and the changes which they undergo in digestion and metabolism, as well as a consideration of the vitamins and other accessory food factors and their importance to the body. A brief discussion of the chemistry of plant life. Prerequisites: Credit or registration in Chemistry 110A-110B.

Fall (3). (Offered in odd-numbered years.)

118. Colloid Chemistry.

MESSNER

A lecture course covering the theoretical principles of colloid chemistry and the preparation, properties and practical applications of colloids. Prerequisite: Chemistry 110A-110B.

Fall (2). (Offered in odd-numbered years.)

123-124. Organic Preparations.

ROBINSON

A laboratory course illustrating some of the more important synthetic methods of organic chemistry. Laboratory and conferences. Prerequisite: Chemistry 7-8. A reading knowledge of German recommended.

Year course, beginning either Fall or Spring (1 to 5-1 to 5).

125. History of Chemistry.

ROBINSON

Development of the science of chemistry from the time of the alchemists to the present. Conducted on the reading, report, and seminar basis. Prerequisite: Chemistry 110A-110B.

Fall (2). (Offered in even-numbered years.)

144. Industrial Chemistry.

ROBINSON

Industrial stoichiometry, flow sheets, flow of fluids and unit processes. Lectures, problems, and reports. Prerequisites: Chemistry 1A-1B, Physics 1A-1B or 2A-2B, and calculus.

Spring (3). (Offered in even-numbered years.)

199. Special Topics.

INSTRUCTORS OF THE DEPARTMENT

Supervised individual work in specialized branches of chemistry such as colloid chemistry, biochemistry, applications of the phase rule, etc. Admission only by the consent of the instructor. Hours and credit to be arranged in each case. Open only to upper division students who have shown their ability to do A or B work in chemistry.

Fall and Spring (1-3).

ECONOMICS

Lower division preparation for the liberal arts major in economics and for the junior certificate: Economics 1A-1B and at least one of the following: Political Science 1A-1B; History 4A-4B; History 8A-8B; Psychology 1A and 1B or 4A or 4B; Geography 1 and 2; Anthropology 50A-50B. Recommended: Sociology 50; Economics 14A-14B, 18A-18B.

Liberal arts major (upper division) in economics, required: Economics 100, 140 and 199, with 7 units selected from the following: Economics 101, 121, 123, 128, 131, 133, 134, 135, 152, and 171. Electives: Nine upper division units in economics. Economic geography may be substituted for three elective units in economics.

Commerce

Candidates for a teaching credential in business education should refer to the statement "Admission to Upper Division Teacher Training" on page 32 and to curriculum for the A.B. degree with a special credential in commerce on page 43.

Lower division preparation for the liberal arts major in commerce and for the junior certificate: Economics 1A-1B, 11, 14A-14B (6 units), 18A-18B; English 1B, 2 or 3; Geography 1-2; Mathematics C and G, or equivalents, and 2; History 4A-4B or 8A-8B or Political Science 1A-1B.

Liberal arts major (upper division) in commerce, required: Economics 121, 140, 199 and 16 units additional chosen in one of the following groups:

A. Accounting: Economics 160A-160B, 161, 163 and 4 units in electives in economics.

B. Banking and Finance: Economics 133, 134, 135, and 7 units in electives in economics.

C. Marketing and Merchandising: Economics 123, 125, 171, and 7 units in electives in economics.

Geography 141 may be used in the electives under A. B. C.

LOWER DIVISION COURSES

1A-1B. Principles of Economics.

CAMERO

The basic principles of economics: utility, wealth, value, price; economic production, distribution, and consumption; rent, interest, wage and profit; competition, monopoly, and large scale production; property and economic waste, and luxury; money and banking, international trade and tariffs; transportation corporations, labor problems, socialism, taxation etc. Aims of the course: (1) to provide a foundation for further intensive study of economic problems; (2) to furnish to those who expect to follow business pursuits a broad foundation in economic principles; and (3) to introduce future citizens to political and economic problems.

our time. Lectures, discussions, quizzes, and collateral reading. Not open to entering freshmen except by special arrangement.

Year course (3-3).

11. Economic History of the United States.

WRIGHT

A comprehensive survey of American economic development and of national legislation in the field of industry.

Spring (3).

14A-14B. Accounting.

WRIGHT

A knowledge of bookkeeping not required and not advantageous. The balance sheet; profit and loss statement; various types of books of original entry; the opening, conducting, and closing of books for different kinds of businesses; organizations, reorganizations, dissolutions, and consolidations, etc., keeping in view the best modern accounting practice. Five hours lecture and laboratory.

Year course (3 or 4-3 or 4).

18A-18B. Commercial Law.

STANTON

The leading and fundamental principles of business law. Simple cases showing the actual application of the principles to commercial and business transactions, rather than the development of those principles. The subjects covered: contracts, sales, agency, partnerships, corporations, real property, negotiable instruments, insurance, and wills, with a brief study of evidence.

Year course (3-3).

UPPER DIVISION COURSES

100. Modern Economic Thought.

A. G. PETERSON

Classical doctrine in the light of recent economic theory. A critical analysis of contemporary economic thought. Prerequisite: Economics 1A-1B.

Spring (3).

121. Business Administration.

A. G. PETERSON

Problems of business administration as an interrelated whole and as an indication of lines of study which may lead to the solution of those problems. A discussion of the problems of the business administrator with particular reference to the character of the problems involved and to the control policies and devices of the manager. Questions, problems, and case studies. Prerequisite: Economics 1A-1B.

Fall (3).

123. Marketing.

Our distributive organization and its functions, including the marketing of both agricultural and manufactured products. Prerequisite: Economics 1A-1B.

Spring (3). (Not offered in 1936-1937.)

125A. Advertising.

Functions, theory, principles and applications; selecting the right appeal; surveys and analyses; studying markets; budgeting the appro-

priation; layouts, type, borders and illustrations; use of color; choice of mediums; writing publicity and promotion stories; openings, anniversaries, sales and special events; institutional copy; the advertising agency and its functions; sales and collection letters.

Fall (2). (Not offered in 1936-1937.)

125B. Salesmanship.

Salesmanship, the market basket of knowledge; the mechanics of the mind; overcoming fear; the human element in selling; meeting competition; analyzing a sale in advance and methods of using this analysis in consummating a sale; personal attributes; selling an invisible commodity; selling a specialty; retail selling; the steps of a sale. Actual merchandise will be used in demonstration. Outstanding salesmen in the various crafts will illustrate correct methods of selling.

Spring (2). (Not offered in 1936-1937.)

128. Real Estate.

CAMERON

Real estate in all its aspects: property rights, transfer of title, valuation, finance, selling, property management, taxation, insurance, city planning, and the like, with special emphasis upon problems as they exist in San Diego.

Spring (3). (Not offered in 1936-1937.)

131. Public Finance.

Principles and practice of taxation, public expenditures, and financial administration. Prerequisite: Economics 1A-1B.

Spring (3). (Not offered in 1936-1937.)

133. Corporation Finance.

CAMERON

The corporate form of organization, instruments of long-time finance, methods of raising capital, efficient financial management, and the financing of reorganizations. Prerequisite: Economics 1A-1B.

Fall (3).

134. Investments.

CAMERON

Investment principles and practices with emphasis upon problems of the small investor, such as tests of a good investment, sources of information, types of stocks and bonds, mechanics of purchase and sale, investment trusts, real estate mortgages, and the like.

Spring (3).

135. Money and Banking.

CAMERON

The elements of monetary theory. History and principles of banking with special reference to the banking system of the United States. Prerequisite: Economics 1A-1B.

Fall (3).

140. Statistical Methods.

PERRY

The nature and uses of statistical method in the social sciences. Practice in the tabular and graphical presentation of data; in the computation of averages, ratios and coefficients, measures of dispersion, and measures of relationship. Research studies are made, utilizing data obtained from typical economic and commercial situations, involving

index numbers, time series, and business cycles and barometers. Opportunity to obtain practice in the use of calculating machines and other aids to computation. Prerequisite: Mathematics A, C, and D, or equivalents. Only two units of credit are available for this course in the case of students who previously have completed Education 140.

Spring (3).

152. Programs of Social and Economic Security. A. G. PETERSON

Social insurance, unemployment insurance, accident insurance, sickness insurance and the socialization of health insurance. Annuities, retirement programs and old age pensions. Voluntary and compulsory, private and public experiments at home and abroad. Security through national planning, the Italian Corporate State, the Nazi Economic Program, the Soviet Planned Economy and the American "New Deal." Security through international conquest and through international cooperation.

Spring (3).

160A-160B. Advanced Accounting. WRIGHT

An intensive study of the corporation, its accounting and financial problems; a thorough study of the balance sheet; depreciation; factory accounting, etc. Under practical accounting an endeavor is made to design, construct, and operate sets of books to meet the needs of different conditions and kinds of businesses. Six hours lecture and laboratory. Prerequisite: Economics 14A-14B.

Year course (3-3).

161. Cost Accounting. WRIGHT

Principles and methods of cost accounting in the mercantile establishment and in the factory. A study of bookkeeping procedure, the forms used, and their application to practical problems. Prerequisite: Economics 14A-14B.

Spring (3). (Not offered in 1936-1937.)

162. Accounting Systems. WRIGHT

The accounting systems used in various types of business and financial concerns. Some practice in devising and installing systems. Prerequisite: Economics 14A-14B.

Spring (3).

163. Machine Accounting. WRIGHT

The application of mechanical accounting devices to accounting conditions together with a study of efficient machine methods that conform to good accounting practice and yet meet the practical accounting requirements that are found in many classes of business. In addition to a thorough study of machine installations, the course requires considerable practice in the operation of standard accounting machinery. Prerequisite: Economics 14A-14B.

Fall (3). (Not offered in 1936-1937.)

164. Income Tax Procedure. WRIGHT

A consideration of the problems arising from the Federal income tax. The problems are approached from the point of view of the taxpayer who desires to determine the exact application of the law to the interests he

represents as well as from the accounting point of view. No knowledge of accounting procedure is necessary.

Fall (2). (Not offered in 1936-1937.)

WRIGHT

165. Auditing.

The fundamental principles of accepted procedures of auditing and related types of accounting engagements.

Fall (2).

CAMERON

171. Transportation.

The development of railway transportation; railroad financing; rates and rate making; government regulation; government operation of railroads during the war; recent development of motor and air transportation; current problems. Prerequisite: Economics 1A-1B.

Spring (3).

199. Special Study.

A. G. PETERSON

Designed exclusively for seniors with a major in economics or commerce.

Spring (2).

Economic Geography

(See Geography)

Social Science

LOWER DIVISION COURSES

1. Contemporary Political, Social and Economic Problems.

A. G. PETERSON

An analysis of major problems of the present day with reference to the conditions out of which they arise and with regard to their essential unity and interrelationships and an attempt to introduce the student to sound methods of approach in dealing with these problems. Prerequisite: Sophomore standing.

Fall and Spring (3).

3. Backgrounds of Social Institutions.

ROGERS

An introductory survey of sociological viewpoints. Origin and spread of civilization. Economic backgrounds of society. Emergence and evolution of social institutions: the family, the state, the church. The growth of the idea of progress and the development of scientific thought.

Fall and Spring (3).

Sociology

50. General.

KELLY

A study of the nature and organization of human group activity, including the relation of cultural heritage to public opinion and social change.

Previous preparation in biology and psychology recommended.

Fall and Spring (3).

Social Psychology

(See Psychology)

Merchandising

24A-24B. Principles.

WATENPAUGH

The principles and methods of merchandising; the function and modes of operation of the retailer, the jobber and the manufacturer; types of merchandising; competition; prices; price factors; economics of selling; principles of buying and selling; inventory procedure; stock control; mark-ups and mark-downs; statistical organization and graphical presentation of merchandising data.

Year course (Fall, 3 units; Spring, 3 or 4 units).

25A. Salesmanship.

WATENPAUGH

The mechanics and theory of salesmanship; methods of approach and demonstration; selling ideas and services; meeting objections; inducing decisions; closing sales; the personal factor in connection with the sale. Outstanding salesmen in the various crafts will illustrate correct methods of selling.

Fall (2).

25B. Advertising.

WATENPAUGH

Functions, theory, principles and applications; selecting the right appeal; surveys and analyses; studying markets; budgeting the appropriation; layouts, type, borders and illustrations; use of color; choice of mediums; writing publicity and promotion stories; openings, anniversaries, sales and special events; institutional copy; the advertising agency and its functions; sales and collection letters.

Spring (2 or 3).

26. Store Management.

WATENPAUGH

The field of retailing from the point of view of the store manager, including location, organization, personnel, service features. Sales promotion and store problems regarding claims and adjustments, returned goods, delivery. Investigations of the problems which confront the managers of retail stores. Prerequisite: Merchandising 24A-24B.

Fall (3).

Secretarial Training

A. Business Mathematics.

WRIGHT

A practical course in the mathematics of business. A thorough study of interest, compound interest, discount, amortization tables, insurance rates, etc.

Fall (1).

1A-1B. Typewriting.

AMSDEN

A rapid development of a thorough command of a keyboard by the touch method. The acquisition of speed and the artistic arrangement of typewritten material with special reference to commercial forms, tabulation and billing; specifications, legal forms, and preparation of manuscripts; transcription, mimeographing, etc. Eight hours lecture and laboratory practice.

Year course (3-3).

2A. Typewriting.

AMSDEN

A short course designed for those not wishing to enter the business

office but desiring a knowledge of the use of the typewriter. Five hours laboratory practice.

Spring (2).

3A. Office Methods and Appliances.

W. H. WRIGHT

Practice and principles of office management, including organization, arrangement, and operation. Study and use of modern office appliances, such as the multigraph, mimeograph, filing devices, calculating and book-keeping machines. Prerequisite: Secretarial Training 1A or its equivalent.

Spring (3).

5A-5B. Stenography.

AMSDEN

An intensive course designed for the practical preparation of office secretaries. A thorough study of the Gregg System. Development of the ability to read and write shorthand rapidly and correctly, both literary and commercial. The shorthand speed necessary to pass a civil service examination is attained by the end of the year.

Year course (5-5).

6A-6B. Advanced Stenography.

AMSDEN

Development of speed in writing and transcription. Advanced dictation on letter forms, legal forms, speeches, and literary and technical material.

Year course (3-3).

10A. Business Correspondence.

AMSDEN

Theory and practice of business correspondence. Lectures and laboratory work. Prerequisite: English 1A or equivalent (as indicated by Subject A Test or record from another college).

Fall (3).

EDUCATION

A-P-R-S.

AULT AND STAFF

Supervised study in arithmetic, penmanship, reading, and spelling for teacher training students deficient in these subjects. Successful completion of one of these courses is accepted in lieu of a passing grade in the Fundamentals Test in the subject. The Fundamentals Test, including achievement tests in arithmetic computation, arithmetic reasoning, silent reading comprehension, spelling, and penmanship, is a prerequisite for admission to upper division teacher training and should be taken by all teacher training students in their freshman year. Those who pass this examination with satisfactory standing are excused from Education A-P-R-S.

Fall and Spring (0).

17. Music in the Elementary School.

SPRINGSTON

Main objectives of music teaching in the public elementary schools. Study of the child voice. Organization of song material by grades. Procedure in presenting rote songs, ear training, elementary notation, music reading, and part singing. Conducting. Not open to students taking the elementary credential, nor to freshmen. Prerequisite: Music 1A, or the equivalent.

Fall and Spring (2).

19. Art in the Elementary School.

PATTERSON

Discussion of the elements and principles of art and their place in the art expression and appreciation of the elementary school child. Lectures illustrated with examples of children's work and opportunity given for experience with mediums used in elementary school problems. Not open to students taking the elementary credential. Prerequisite: Art 6A.

Fall and spring (2).

UPPER DIVISION COURSES

106. Philosophy of Education.

AULT

The fundamental biological, psychological, philosophical, social principles underlying modern education, in connection with the demands of modern society in a complex social, economic, and scientific world, with a view to the formulation of a working philosophy for the educative process. Designed as a culmination of the studies of education and its procedures. Open only to students with senior standing.

Spring (3).

107. History of Education.

AULT

A brief study of early Hebrew, Greek, Roman and early Christian education; of the changes brought about by the Renaissance; of the transition to modern secular education; brief reviews of the educational philosophies of the great reformers; a concluding study of the development of the American school system and of American ideals and practices in education. Only 2 units allowed for students having credit for Education S107, History of Education in the United States (offered in the summer session).

Fall (3).

108. Educational Measurements.

PERRY

A brief survey of the development of scientific measurement in the elementary school field, including an intensive study of the more reliable and valid tests of school achievement and of mental ability. Statistical training given in handling data obtained by using measurements in typical school situations, leading to a study of the uses of tests. Practice in the construction of teacher-made, objective tests in the elementary school subjects.

Fall and spring (3).

109. Educational Administration and Supervision.

A survey of the systems of organization, classification, and promotion of pupils, and such problems as finance, the teaching staff, building standards, extra-curricular activities, etc. Prerequisites: Education 125, 108, or equivalents.

Summer (2).

110. Educational Organization and Supervision.

Types of supervision and methods of evaluating and improving teaching. Prerequisites: Education 125, 108, or equivalents.

Summer (2).

111. English in the Junior High School.

TRAIL

Objectives of literature and language teaching in the junior high school; criteria for selection of material; technique of classroom procedure; observation in the city schools. Prerequisite: The satisfaction of the lower division requirements in English for the teaching major in English.

Spring (2).

112. Mathematics in the Junior High School.

RICHARDS

The subject matter, management of it, and methods of teaching it in a junior high school curriculum in general mathematics. Specific problems: the application of arithmetic in current social and business life, intuitive geometry, graphic representation, the phase of algebra suitable to the junior high school pupil, preparation for senior high school mathematics. Prerequisites: Psychology 1A and a passing grade in the Fundamentals Test.

(2). (Not offered in 1936-1937. Students will substitute Mathematics 19).

114. Social Science in the Junior High School.

NIDA

The teaching of some of the elementary facts and principles of a "general" social science suited to the experience and development of the junior high school pupil, through the medium of such social studies in the junior high school curriculum as history, geography, and civics. Methods of developing a genuine and continuing interest in social and civic problems through observation and reading, discussed and illustrated. Special stress on evaluating historical and geographical material for educative purposes on this level. Prerequisites: Six units of geography and six units of history.

Fall and spring (2).

116. Practice Teaching.

AULT AND SUPERVISORS

Systematic observation, participation and teaching under supervision in the campus training school, the Euclid affiliated city elementary school, and the junior and senior high schools of the city of San Diego and vicinity.

The general plan is for elementary school credential candidates to take, in addition to the education practicums, two hours of teaching daily in the campus training school or two and one-half hours daily in the Euclid school throughout one semester; junior high school and special secondary school credential candidates will be guided by their adviser relative to the distribution of their practice teaching. For those seeking a combination of credentials, the requirements for each teaching level must be satisfied. Further information regarding this requirement should be requested of the Dean of Education when the student first registers for practice teaching.

Thirty clock hours of practice teaching will usually carry one unit of credit in the course, but the final amount of credit allowed will depend upon the character and quality of the teaching done by the student. Practice teaching requirements may be reduced for those who furnish evidence of successful public school experience.

The maximum amount of credit allowed for this course is twelve units. The universities usually reduce the amount of practice teaching credit

they will allow to four units. Students planning to transfer to such institutions should be prepared to meet this reduction with an equal number of acceptable units in other courses.

No grade below a C is acceptable for credit in this course.

Prerequisites: Admission to upper division teacher training; a C average in all college work and in the work of the preceding semester; three units of work in psychology. No credit will be given for this course unless registration is made in the office of the Dean of Education.

119. Art in the Junior High School.

PATTERSON

Art curriculum planning for junior high schools and studio problems and discussion. Prerequisite: Education 19.

Spring (2). (Offered in odd-numbered years.)

120. General Science in the Junior High School.

SKILLING, M. E. JOHNSON

The content, methods, field work, text books, laboratory work, equipment, and reference reading for teaching general science in a junior high school. Prerequisites: Eighteen units of college science including one year-course in a college biological science, Physics 2A-2B, or equivalent, and high school or college chemistry.

Spring (2). (Offered in odd-numbered years.)

121. Principles of Secondary Education.

NIDA

The principles of educational science that should underlie the organization, administration and curriculum of the secondary school. Prevailing patterns of high school education; tendencies in the direction of future development. Particular attention to the method of directing learning in the secondary schools. Prerequisite: Psychology 1A. Open only to students with senior standing.

Fall and Spring (3).

124. Romance Languages in the Junior High School.

PHILLIPS

The main questions of pronunciation, grammar, composition, reading, texts, etc., as applied to teaching elementary classes in French and Spanish; the different methods; their history and value. Prerequisite: Two years of college French or Spanish.

Spring (2).

125. The Elementary School Curriculum.

PERRY

An analytical and constructive curricular study of the subject matter taught in the elementary school, with particular emphasis on the upper elementary grades; together with an intensive study of teaching techniques in the elementary school, including observation of typical teaching procedures. The course embraces individual and group research work in curricular materials, visual aids, type lessons, and experimental studies of teaching methods.

Required of candidates for junior high and special credentials in art and physical education. Candidates for a combination of the elementary and junior high school credentials must register for the education practicum instead of this course. Prerequisite: Education 108, taken previously or at the same time.

Fall (3).

127. Music in the Secondary School.

L. D. SMITH

Main objectives of music teaching in the public secondary schools. Organization of the chorus and glee clubs, voice testing, seating, a survey of song materials available. Organization of courses in applied music, harmony, history and appreciation.

Fall (2). (Offered in odd-numbered years.)

130. Educational Psychology.

PERRY

Man's equipment for learning and the learning process. Consideration given to human behavior which is fundamental to learning. The study of learning includes such topics as laws of learning, improvements in learning, remembering and forgetting, fatigue in learning, and the transfer of training. Prerequisite: Psychology 1A.

Spring (3).

137. Comparative Education.

AULT

School systems of England, France, Germany, and Denmark; traits of peoples; origin and development of school systems; literacy of populations; traditional influences; characteristic types of schools and educational procedures; governmental and private support; training of teachers.

A knowledge of History of Education desirable but not required.

Fall (3). (Not offered in 1936-1937.)

140. Elementary Educational Statistics.

PERRY

An introductory study of measures of central tendency, of variability, and of relationship which are commonly used in connection with educational work. Laboratory training in statistical method and opportunity to obtain practice in the use of calculating machines and other aids to computation. Data for statistical research taken from typical school situations. Only 2 units allowed students who have taken Economics 140.

Fall (3).

142. Educational Sociology.

HEPNER

A consideration of school practices in light of social needs; interrelationships of schools and other social agencies; and trends in cooperative activities among community organizations. Selected individual study projects to make personal contacts with various types of public and private social institutions and with some current social movements. Prerequisite: Upper division standing.

Spring (3).

145. Organization and Administration of Music Education.

L. D. SMITH

Theory of the general principles of music administration; correlation of music with the various subjects in the public schools; music tests; creative work.

Fall (2). (Offered in even-numbered years.)

147. Education Practicum—Lower Levels (See description below.)

Fall and Spring (10).

BACON, DEPUTY, HAMMACK,
PATTERSON, SPRINGSTON

148. Education Practicum—Upper Levels (See description below.)

Fall and Spring (10).

CORBETT, DEPUTY, PATTERSON,
RICHARDS, SMOOR, SPRINGSTON

1. Plan for 1936-1937.

The educational practicums will include the work formerly offered in Education 1, 17, 19, 125A, 125B, 126, and 129.

In place of the discontinued courses all upper division candidates for the elementary school credential will be required to take the two educational practicums, the one dealing with the lower levels being prerequisite to the one dealing with the upper levels. The material covered will be equivalent to the courses discontinued, plus four units of practice teaching. The maximum credit allowed for each practicum is 10 units.

A group of courses taken at this or another institution will not be considered as a substitute for the educational practicums. If such independent courses have been completed in this college previous to September, 1934, or in another teacher training institution, credit may be submitted to the Dean of Education and, with his approval, an equivalent may be allowed.

2. Content of the Practicums.

Characteristics of children in the elementary school; organization of the activity program; study of activities and materials based on children's interests, capacities, needs, and the local environment; teaching and learning procedures in the fields of reading, language, writing, use of numbers; observation and participation in actual classroom situations.

3. Schedule of Work.

Lectures, discussions, and observations held daily by each supervisor and the principal of the training school from 8.10 to 10.00 a.m.; also, participation for one hour daily in the activities of the pupil-group to which he is assigned will be required of each student.

4. Registration for Education Practicums.

The practicum courses are to be taken by the student in his junior year. Assignments will be made by the principal of the training school at the time of preregistration of upper division teacher training students.

60. Commercial Education.

W. H. WRIGHT

Aims, objectives and procedures in commercial education. A study of curricula, together with a consideration of the content of commercial subjects; tests applicable to commercial teaching.

Fall (2).

61. Junior Business Training.

W. H. WRIGHT

The methods and content of the course in the elements of business training as offered in the junior high school. Not open for credit for those who have taken Secretarial Training 3A.

Spring (2).

63. Stenography.

AMSDEN

Methods and content of courses in stenography. Prerequisites: Secretarial Training 5A-5B, 6A.

Fall (2).

164. Bookkeeping.

W. H. WRIGHT

Various types of bookkeeping method, with considerable study of content.

Fall (2).

165. Typewriting.

AMSDEN

Methods in typewriting and office procedure. Prerequisite: Secretarial Training 1A.

Spring (2).

170. Administration of a Visual Instruction Program.

EVANS

Supervised study and practical experience in the various phases of work in a visual instruction center. Aims to give teachers a specific knowledge of visual instruction materials and methods and to meet the needs of individuals interested in obtaining training in the administration phases of a visual instruction program to fit them for positions as directors of staff workers in the field.

The service program of a visual instruction center is studied as collecting, selecting, organizing and distributing center for classroom illustrative materials; a teacher training and advisory bureau in the technique and correct use of visual aids; a photographic production laboratory for making current and local illustrative materials for the curriculum; a testing division for evaluating visual equipment, standardization and upkeep of same; a center for correlating and integrating the school program with opportunities offered by other community educational institutions and organizations; an advisory department for supervising school film productions and for instructing teachers and students in the art of photography and appreciation of photoplays.

This course is given at the visual education center of the San Diego city schools and the enrollment is limited to students who have made previous arrangements with the head of the Education Department and with the instructor.

Fall and Spring (2).

199. Educational Problems.

EDUCATION STAFF

(Dean of Education in charge)

A course for senior students in teacher training who have shown ability to work independently on educational problems. Admission only by consent of the staff. Credit and hours to be arranged.

Fall and Spring (1-3).

ENGLISH

Lower division preparation for the liberal arts major in English and for the junior certificate: English 1B-2 or 3 and six units from 52B, 56A, 56B.

Liberal arts major (upper division): 24 units in upper division English to be selected and arranged under supervision of the department. Not over four units may be in composition. A reading knowledge of German or French.

LOWER DIVISION COURSES

A. Freshman English.

KEENEY, TRAIL

The elements of composition, including drill in grammar and usage, exercises in vocabulary building and careful reading, and an introduction to the principles of effective writing.

Fall and Spring (1).

B. Freshman English.

ADAMS, DICKHAUT, KEENEY, TRAIL, F. D. WALKER

Reading and composition. Reading chosen from essay material of England and America since 1850. Composition stressing exposition. Prerequisite: English 1A or equivalent (as indicated by Subject A test or record from another college).

Fall and Spring (3).

C. Sophomore English.

F. D. WALKER

Reading and composition. Reading from field of biography and memoirs. Composition stressing personal narrative and informal essay. Prerequisite: English 1B.

Fall and Spring (3).

D. Sophomore English.

ADAMS

Reading and composition. Reading from contemporary periodical literature. Composition stressing article writing of varied types. Prerequisite: English 1B.

Fall and Spring (3).

E. A-4B. Great Books.

OUTCALT

A survey of books and bodies of literature that are significant sources or expressions of European and American culture. These include the Hebrew Bible, Greek epic and tragedy, Norse eddas, and other literature of religious and communal character; and highly significant masterpieces in poetry and prose by great authors down to the nineteenth century.

Year course (3-3).

F. Recreational Reading.

DICKHAUT

Development of personal tastes for leisure-time reading through lectures and oral or written reports. May be taken a second time with new material.

Fall and Spring (1).

G. 2A-52B. Types of Literature.

OUTCALT

Semester I: Introduction to the study of lyrical and narrative poetry; origin and elements of poetry; typical poems. Semester II: Introduction to the study of dramatic poetry and prose, the essay, novel and short story; elements, principles and characteristics; examples.

Year course (3-3).

H. 6A-56B. Survey of English Literature

KEENEY

The most important masterpieces of English literature from the Anglo-Saxon period through the Victorian age.

Year course (3-3).

UPPER DIVISION COURSES

101. Modern Prose Fiction.

DICKHAUT

Recent and contemporary fiction in novel and short story, beginning with Meredith and including the best British and American fiction of today.

Spring (3).

106A, 106B. Advanced Composition.

DICKHAUT

A laboratory course in modern prose writing. Semester I: Artistic narrative, with description. The short story. Semester II: The essay, the magazine article, criticism. Outside readings. Prerequisite: One year college composition. Either semester may be taken first.

Fall, Spring (2, 2). (Not offered in 1936-1937.)

107A, 107B. Advanced Composition.

ADAMS

These courses are designed for students who wish to do independent work in composition. The discussions will consider the problems of effective expression as exhibited in the work of the members of the class. Prerequisite: Same as for 106A, 106B. Either semester may be taken first.

Fall, Spring (2, 2).

110. Recreational Reading.

DICKHAUT

An advanced course similar in character to English 10.

Fall and Spring (1).

116. Elizabethan Literature.

ADAMS

An introduction to the principal writers from Wyatt and More to Ben Jonson and Bacon. Approximately equal attention is given to the non-dramatic poetry, the prose, and the drama of the period.

Fall (3). (Offered in even-numbered years.)

117. Shakespeare.

OUTCALT

Extensive reading of Shakespeare's plays, with special attention to a select group of the comedies and another of the tragedies. Lectures and special reports.

Spring (3).

118. Makers of Eighteenth Century Literature.

KEENEY

Pope, Defoe, Swift, Johnson, Goldsmith, Fielding, and their contemporaries as interpreters and teachers of their age.

Spring (3).

119. The Romantic Poets.

ADAMS

A study of early nineteenth century poetry; the work of Wordsworth, Coleridge, Byron, Shelley, and Keats, in relation to the thought of the revolutionary period.

Spring (3).

121. Poetry of the Victorian Period.

F. D. WALKER

A study of Tennyson and Browning and their contemporaries and successors, relating English poetry to nineteenth century life and thought.

Fall (3). (Offered in odd-numbered years.)

126. Anglo-Irish Prose from Landor to Galsworthy. DICKHAUT

Discussion, criticism, belles-lettres in England and Ireland from the Victorians to the late Georgians, including selections from Carlyle, Mill, Huxley, Newman, Stevenson, Pater, Shaw, Russell, West, Beerbohm, Chesterton, Inge, and others. Lectures and reports on outside reading.

Fall (3).

130A. American Literature. OUTCALT

A survey of American Literature with its backgrounds from the beginning of the 19th century to about 1890. Cooper, Melville, Hawthorne, Poe, Emerson, Thoreau, Whitman, Mark Twain and others are considered and related to national development. Lectures, discussions, and reports.

Fall (3).

130B. American Literature. F. D. WALKER

A survey of American literature with its backgrounds, covering the period from about 1890 to the present time. Extensive reading in recent and contemporary poetry, fiction, etc. Lectures, discussions and reports.

Spring (3).

143. The Development of the English Novel. F. D. WALKER

History of the English novel from the beginnings to Hardy. Extensive reading of novels with reports. Lectures and discussion.

Fall (3). (Offered in even-numbered years.)

151. Medieval Literature. KEENEY

The literature of the fourteenth century, especially the verse romances and the poetry of Chaucer.

Fall (3).

160. Milton and Dryden. ADAMS

Studies in poetry of the seventeenth century, relating it to the thought and the social life of the age.

Fall (3). (Offered in odd-numbered years.)

Speech Arts

LOWER DIVISION COURSES

1A. Fundamentals of Public Speaking. PFAFF

Training in fundamental processes of oral expression; methods of obtaining and organizing material; outlining principles of attention and delivery; extemporaneous speaking and open forum debating; practice in construction and delivery of type forms of speech.

Fall and Spring (3).

1B. Extemporaneous Speaking (or Forum Speaking). PFAFF

Practice in extemporaneous speaking on subjects of current interest both national and local, with stress laid on the organization and delivery of content material. Forum discussion will provide speakers with the opportunity of assembling facts quickly to meet such questions as any audience situation might demand.

Spring (3).

1C. Oral Interpretation.

PFAFF

The oral interpretation of longer literary selections, both in poetry and prose; a fundamentals course designed for the beginning students in drama as well as those majoring or minoring in English literature.

Fall (3).

1D. Advanced Interpretation.

PFAFF

Emphasis placed on stage poise and grace with adequate attention given to variations in the presentation of literary selections. Much opportunity is provided for individual and group creative work. No prerequisite. Class limited.

Spring (3).

20. Corrective Speech.

PFAFF

Corrective laboratory training prescribed on the basis of vocalization tests made on Edison machine. Required of education majors who fail to meet speech requirements test. Also recommended for those who plan public careers.

Fall and Spring (1). (9 weeks' course.)

55A-55B. Dramatic Production.

JONES

A course for first and second year students in which, through participation, they acquire an understanding of certain dramatic periods and types studied in English literature. Individual and group expression coordinated and developed in production of scenes, acts, and plays—a fundamental drama course. No prerequisite.

Year course (3-3). (Offered in odd-numbered years.)

55C-55D. Dramatic Expression.

JONES

A course designed to help first and second year students realize and develop their own abilities for expressing character and life. Coordination of thought, voice, and body, acquired through interpretation, impersonation, and acting of contemporary situations, creative and standard drama. History, technique, and use of dramatic expression studied. Informal participation by all. Best work given public performances. A fundamental course.

Year course (3-3). (Offered in even-numbered years.)

UPPER DIVISION COURSES

101B. Argumentation and Debate.

PFAFF

Obtaining and organizing of evidence and the construction and use of the brief; study and discussion of current issues; the presentation of formal and informal debates. Attention to intramural and intercollegiate debating.

No credit for students having taken 1B previous to 1934-1935.

Spring (3).

155A-155B. Advanced Dramatic Expression.

JONES

For upper division students training for leadership in different fields as well as drama. More advanced forms of dramatic expression studied; creative abilities in interpretation, writing, acting, and stagecraft developed in relation to various subjects and activities conducted through indi-

vidual research projects, group discussion and participation. Original work encouraged. Prerequisite: A fundamental drama course.

Year course (3-3). (Offered in odd-numbered years.)

156A-156B. Advanced Dramatic Production.

JONES

The study of more difficult dramatic types and periods in the production of poetic and prose literature of different countries. Arrangement, organization, creation, direction and presentation of class room, recreational and other forms of performances. Practical participation and demonstration. A course designed for students majoring in other subjects as well as the theater arts.

Year course (3-3). (Offered in even-numbered years.)

JOURNALISM

(See page 105)

FOREIGN LANGUAGES

Lower division preparation for advanced work in a foreign language and for the junior certificate: Sixteen units of credit in the language chosen for the major.

Lower division preparation for the liberal arts group major in the Romance languages: French A-B, C-D, and Spanish A-B, C-D; History 4A-4B.

The group major requirements are based on the assumption that the student will have taken courses in the high school equivalent to the college course in elementary French or Spanish.

Liberal arts group major (upper division). Twenty-four units of upper division work in French and/or Spanish; or eighteen units in French and/or Spanish, and six units in related subjects, arranged in consultation with the chairman of the department. At least a C average in all upper division major courses. Recommended: Geography 118.

As a background for advanced work in Romance languages, students are advised to include in their electives as many as possible of the following courses: History 121A, 121B, 145A, 145B, Aesthetics 50 or 150; English 4A, 4B, 52A, 52B, 101, 116, 117, 118, 119, 121, 126, 143, 160.

French

LOWER DIVISION COURSES

A-B. Elementary.

E. M. BROWN, PHILLIPS

Intensive study of French grammar and syntax; daily written work discussed in class; class drill in conversational idiom and pronunciation; reading with oral discussion and résumés; dictation; introduction to contemporary prose writers. Credit not given for French A unless followed by French B. Students who have had one year of French in high school should register for French A, but will receive only two units of credit. Those who have had two years of French in high school should register for French B, in which case they will receive four units of credit.

Year course (5-5).

C-D. Intermediate.

E. M. BROWN, L. P. BROWN, PHILLIPS

Reading and composition; study of standard prose as a basis for class work; collateral reading with résumés and written reports in French; dictation. Individual conferences. Prerequisite: French B or three years of high school French, or its equivalent. Students with credit for four years of high school French, or its equivalent, should enter French D.

Year course (3-3).

SC. Scientific.

L. P. BROWN

Readings taken from the fields of chemistry, physics, medicine, zoology, biology, etc. Outside readings of books and periodicals. Oral and written reports. Prerequisite: French B or equivalent.

Fall (2). (Offered in odd-numbered years, if registration warrants.)

UPPER DIVISION COURSES

101A-101B. Conversation and Composition.

E. M. BROWN

Prerequisite: French D, or its equivalent, with grade of C.

Year course (3-3).

105A-105B. Modern French Drama.

E. M. BROWN

Plays of Musset, Scribe, Augier, Dumas fils, Pailleron, Brieux, Hervieux, Maeterlinck, Rostand, and others read and discussed as to subject matter and technique. Outside reading and reports. Prerequisite: French D, or its equivalent, with grade of C.

Year course (3-3). (Offered in 1937-1938.)

107A-107B. Eighteenth Century Literature.

L. P. BROWN

The philosophical ideas of the century as contained in the works of Montesquieu, Voltaire, and Rousseau. The Encyclopédistes. Prerequisite: French D, or its equivalent, with a grade of C.

Year course (3-3).

110A-110B. Modern French Novel.

E. M. BROWN

The French novel from Victor Hugo to the present day, including such authors as: Hugo, Dumas, Stendhal, Balzac, Flaubert, Loti, Anatole France, Bourget, Bordeaux, Bazin, Barres, Romain Rolland, A. Gide, Marcel Proust, and others. Class and outside reading and reports. Prerequisite: French D, or its equivalent, with grade of C.

Year course (3-3). (Offered in 1939-1940.)

111A-111B. Seventeenth Century Dramatic Literature.

E. M. BROWN

Reading in class of plays of Molière, Corneille, and Racine. Outside readings and lectures on the background of the seventeenth century in France. Prerequisites: French D, or its equivalent, with a grade of C, and upper division standing.

Year course (3-3). (Offered in 1938-1939.)

199. Comprehensive Reading and Survey Course.

THE STAFF

Designed to fill up the gaps in the reading done in courses. Class meeting once a week for guidance, reports, and quizzes. Either this course or Spanish 199 is required of all seniors majoring in Romance languages.

Spring (3).

German

LOWER DIVISION COURSES

A-B. Elementary.

H. K. WALKER

Pronunciation, reading and grammar, with practice in simple conversation, narration and description, both oral and written. Credit not given for German A unless followed by German B. Students who have had one year of German in high school should register for German A, but will receive only two units of credit. Those who have had two years of German in high school should register for German B, in which case they will receive four units of credit.

Year course (5-5).

C-D. Intermediate.

H. K. WALKER

Reading and composition; study of standard prose as basis for class work; collateral reading with written reports; German conversation, with the texts read as a basis; dictation. Prerequisite: German B or three years of high school German, or its equivalent. Students with credit for four years high school German, or its equivalent, should enter German D.

Year course (3-3).

SC-SD. Scientific.

MESSNER

Fall semester. Readings in scientific reader on chemistry, physics, etc.; occasional written reports on scientific subjects read outside of class; sight reading. Spring semester. Readings in special scientific or technical works; weekly written reports required; sight reading. Prerequisite: German SC-German B with a grade of C or three years of high school German; German SD-German C with a grade of C or four years of high school German.

Year course (2-2). (Offered in 1937-1938.)

Spanish

LOWER DIVISION COURSES

A-B. Elementary.

L. P. BROWN, PHILLIPS

Intensive study of Spanish grammar and syntax, with daily written work; class drill in conversational idiom and pronunciation; reading with oral discussion and résumés; dictation; introduction to contemporary prose writers. Credit not given for Spanish A unless followed by Spanish B. Students who have had one year of Spanish in high school should register for Spanish A, but will receive only two units of credit. Those who have had two years of Spanish in high school should register for Spanish B, in which case they will receive four units of credit.

Year course (5-5).

C-D. Intermediate.

PHILLIPS

Reading and composition; study of standard prose as basis for class work; collateral reading in prose and drama, with written reports in Spanish; dictation. Class work conducted mainly in Spanish. Individual conferences. Prerequisite: Spanish B or three years of high school

Spanish, or its equivalent. Students with credit for four years of high school Spanish, or its equivalent, should enter Spanish D.

Year course (3-3.)

1-2. Elementary.

L. P. BROWN

A course similar to Spanish A-B, but meeting only three times a week and giving only three units of credit a semester. Intended for those who do not wish to major in Romance languages and for those who wish to go more slowly than is possible in a course meeting five times a week. Students who have had one year of Spanish in high school should register for Spanish 2. Credit not given for Spanish 1 unless followed by Spanish 2.

Year course (3-3).

3-4. Intermediate.

A continuation of Spanish 1-2. Reading of Spanish prose; composition; outside reading in Spanish 4, with reports. Students with two years of high school Spanish should register for Spanish 3 or Spanish B. Those with three years may register for either Spanish 4 or Spanish C.

Year course (3-3).

UPPER DIVISION COURSES

101A-101B. Conversation and Composition.

PHILLIPS

Prerequisite: Spanish D, or its equivalent, with grade of C.

Year course (3-3). (Offered in 1937-1938.)

102A-102B. Introduction to Spanish Classics.

L. P. BROWN

Reading from several types of classical literature. Lazarillo de Tormes, and other novels of Roguery; selections from Don Quixote, and the Cien Mejores Poesias Castellanas; one drama each from the works of Lope de Vega, Calderon, Alarcon, and Moreto; collateral reading and reports. Prerequisite: A grade of C in Spanish D or permission from the instructor.

Year course (3-3). (Offered in 1938-1939.)

104A-104B. Spanish-American Literature.

PHILLIPS

A survey of the whole field of Spanish-American literature during the colonial, revolutionary and modern periods, with special attention during the second semester to the literature of one country. Collateral reading and reports. Prerequisite: A grade of C in Spanish D or permission from the instructor.

Year course (3-3).

105A-105B. Modern Spanish Drama.

L. P. BROWN

The development of the drama of Spain from the beginning of the nineteenth century to the present time. Prerequisite: A grade of C in Spanish D or permission from the instructor.

Year course (3-3). (Offered in 1939-1940.)

110A-110B. Novel and Short Story in Spain.

L. P. BROWN

The development of the novel and short story in Spain from 1830 to

the present time. Prerequisite: A grade of C in Spanish D or permission from the instructor.

Year course (3-3). (Offered in 1937-1938.)

199. Comprehensive Reading and Survey Course. THE STAFF

Designed to fill up the gaps in the reading done in courses. Class meeting once a week for guidance, reports, and quizzes. Either this course or French 199 is required of all seniors majoring in Romance Languages.

Spring (3).

General Language

LOWER DIVISION COURSE

A. Latin and Greek Word Derivation. L. P. BROWN

A general and elementary course in philology. A study of Latin and Greek roots of most frequent occurrence in English, and of the English words derived from them. Not open to first semester freshmen.

Spring (2).

GEOGRAPHY

Lower division preparation for the liberal arts major in geography and for the junior certificate: Geography 1, 2, 3, and Geology 1A-1B. Recommended: A reading knowledge of French or German.

Liberal arts major (upper division): Twenty-four units of upper division work in geography or 18 units in geography and six units in related subjects arranged in consultation with the chairman of the department.

LOWER DIVISION COURSES

1. Introduction to Geography; Elements. CLARK, STORM

The fundamental principles of geography, the distribution of life upon the earth, and the effects of environment upon the activities of man. Climate, land forms, bodies of water, natural resources, and location in their relation to human activities. Open to all students.

Fall and Spring (3).

2. Introduction; Natural Regions and the Distribution of Population and of Cultures. CLARK, STORM

The application of the fundamental principles of geography to the various regions of the world. Comparison of regions with regard to different stages of development. Prerequisite: Geography 1.

Fall and Spring (3).

3. Elementary Meteorology. BLAKE

An elementary study of the earth's atmosphere and changes in it which produce our weather and influence human affairs. Special attention given to local conditions, instruments, and records.

Spring (3).

12. Geography of California. STORM

The main physiographic regions of California and the cultural landscapes developed by the successive cultural groups. Prerequisite: Geography 1.

Spring (2).

13. Regions: Advanced.

CLARK

Special regions selected from Africa, Australia, Oceania, and Polar Areas. Prerequisites: Geography 1 and 2.

Fall (2).

UPPER DIVISION COURSES

116. Geography of South America.

CLARK

The climate, topography, and natural resources of the South American countries; the effect of those physical factors upon the economic, commercial, and racial problems of the different nations. Prerequisite: Geography 1.

Spring (3).

117. Geography of Northwestern Europe.

CLARK

The physical environment of each of the nations of the area and their reactions to physical environment in their political and social relations. Importance of the countries in manufactures. This course is planned so to familiarize the student with modern European countries that he can read current periodical literature with understanding and interest. Prerequisite: Geography 1.

Fall (3).

118. Geography of the Mediterranean Area.

CLARK

A treatment of Southern Europe, Western Asia, and Northern Africa as a unit and a comparison of the land forms, climates, types of native vegetation, cultivated crops, industrial status, and present world position; also the effect of geographic factors on the history of the area. Prerequisite: Geography 1.

Spring (3).

121. Geography of North America.

STORM

The natural regions of North America, their formation and economic and historical development. Prerequisite: Geography 1.

Fall (3).

124. Geography of Asia.

STORM

The cultural regions of Asia, their physical environment, and historical development. Prerequisite: Geography 1.

Spring (3).

135. Geography of the San Diego Area.

CLARK, STORM

Directed individual rural and urban field work of San Diego area including the mapping of a small area and its geographic interpretation. Prerequisites: Geography 1, 2, and Geology 1A.

Fall (2). (Offered in even-numbered years.)

141. Economic Geography.

STORM

A world-wide survey of the raw materials of world trade; their production and distribution as related to the major geographic regions of the world. Prerequisites: Geography 1 and 2.

Fall (3).

GEOLOGY

Departmental requirement in Geology for liberal arts major in Physical Science includes in addition to Geology 1A-1B, the completion of: Chemistry 1A-1B, and 5; Mathematics 3A; Physics 1A-1B-1C-1D or 2A-2B; 3A-3B.

Students preparing for advanced work in Geology may substitute Industrial Arts 21 for Mathematics 3A.

French or German and Surveying 1A-1B are recommended.

LOWER DIVISION COURSES

1A. General.

BROOKS

The composition and distribution of earth materials, and their modification through mechanical and chemical processes of change. Three lectures and one three-hour laboratory period weekly with related field study during the semester.

Fall and Spring (4).

1B. Historical.

BROOKS

Theories of earth origin, and the evolutionary history of the earth as traced through rock and fossil records. Consideration of the geologic history of selected regions. Three lectures and one three-hour laboratory period weekly, with arrangement for field study and conference during the semester.

Spring (4).

UPPER DIVISION COURSES

100. Physical Geology.

BROOKS

The evolution and description of the structural and topographical features of the earth. Faulting, folding, and orogenic forces with practical illustrations from the North American Continent. Lectures, discussions, and occasional field trips. Prerequisite: Geology 1A-1B.

Fall (3).

101. Geologic Problems.

BROOKS

Reconnaissance of adjacent areas with elementary mapping; or directed reading from a prepared syllabus introducing the several phases of geologic literature; or selection and preparation of material for the museum collections. Prerequisite: Geology 1A-1B. Registration subject to approval of instructor.

Spring (1-4).

GERMAN

(See Foreign Languages)

HEALTH AND PHYSICAL EDUCATION

(See Physical Education)

HISTORY

Lower division preparation for the liberal arts major in history and for the junior certificate: History 4A-4B, or 8A-8B, and either Political Science 1A-1B or Economics 1A-1B. No student shall enroll in more

than one lower division history course during a semester. Students who wish to major in history and who have had less than two years of European history in high school must take History 4A-4B.

Liberal arts major (upper division): Twenty-four units in upper division courses in history to be arranged in consultation with the chairman of the department. The student must, in his senior year, enroll in History 199.

LOWER DIVISION COURSES

4A-4B. History of Modern Europe.

LESLEY

Development of European society and institutions from about 1500 A.D.
Year course (3-3).

8A-8B. History of the Americas.

NASATIR

A general survey of the history of the western hemisphere from the discovery to the present time. Emphasis on the process of planting European civilization in the new world, the international contest for the continents, the wars for independence, the development of the American republics, and their relations with each other and with the rest of the world. Based on H. E. Bolton's "Syllabus of the History of the Americas."

Year course (3-3).

UPPER DIVISION COURSES

111A-111B. Ancient History.

LESLEY

Semester I: Social, economic, political, and cultural development of the Greek states with emphasis upon the growth of democracy, attempts at federal union, imperialism, and Hellenism. Semester II: Roman history from the earliest times to the beginning of the medieval period; discussions of Roman imperialism and the main constitutional, economic, social, and religious developments in the republic and the empire.

Year course (3-3). (Not offered in 1936-1937.)

121A-121B. Medieval History.

LESLEY

General survey of European politics and the cultural development of the Middle Ages; the antecedents of the Renaissance; development of medieval life and institutions, feudalism, the church, the universities, and intellectual tendencies. The rise of towns, of new nations, and of new thought, especially in the twelfth and thirteenth centuries. Period covered: 500-1500 A.D.

Year course (3-3).

145A-145B. Europe Since 1789.

LESLEY

Revolutionary era; conflict of reaction and liberalism; development of nationalism, with special attention devoted to the unification of Germany and Italy; events leading up to the World War and contemporary problems of Europe resulting from that conflict.

Year course (3-3).

146A-146B. Diplomatic History of Europe.

LESLEY

European diplomatic and colonial policies since 1648, with detailed

attention to the basic factors in international organization and procedure. During the second semester special emphasis upon the period 1870-1914.
Year course (3-3). (Not offered in 1936-1937.)

151A-151B. England Since the Norman Conquest. NASATIR

A survey of political and constitutional development in England since 1066, stressing the transition from medieval to modern England, Tudor despotism, the struggle for self-government under the Stuarts, the rise and development of present-day political and social institutions.

Year course (3-3). (Not offered in 1936-1937.)

156A-156B. History of British Expansion. NASATIR

A study of the growth, development, and break-up of the older overseas empire; the beginnings of the newer empire after 1783; the rise, federation, and imperial relations of the British Commonwealth of Nations; the crown colony system; India under British rule; and British expansion in Africa and the Pacific; development of British mandates.

Year course (3-3).

161. South America Since Independence. NASATIR

The republics of South America. Attention directed to the development of nationality in South America, the struggles for political stability, the exploitation of resources, diplomatic and commercial relations with the United States, and other international problems of South America. Survey of present-day conditions, political, economic, and social.

Spring (3).

163. Mexico and the Caribbean Countries. NASATIR

Same plan in general as outlined in History 161. Special attention to the relations of the United States with these countries, and to the recent developments in Mexico.

Fall (3).

171A-171B. The Rise of the American Nation. LEONARD

Semester I. English colonization in North America and the development of colonial institutions and politics. Semester II. The revolutionary movement and the Revolutionary War; the establishment of the government under the Constitution to the close of the War of 1812.

Year course (3-3).

173A-173B. The Expansion of the United States. LEONARD

The rise of Jacksonian Democracy; territorial expansion and the Mexican War; the slavery controversy; the Civil War, and reconstruction; the growth and progress of the United States to the World War.

Year course (3-3). (Not offered in 1936-1937.)

199. Special Course for Advanced Students. LEONARD

Required of all students with a history major in the liberal arts curriculum and to be attended during the senior year. Other students may be admitted with the permission of the instructor.

Spring (2).

HYGIENE

LOWER DIVISION COURSES

1. Personal and Civic (Men).

C. E. PETERSON

An informational course in personal and community hygiene. A study of social hygiene and the hygienic principles of living. Investigations by each student of special topics which serve to vitalize the means for protecting and improving the health of the community. It is especially desirable that this course be taken in the first semester of the freshman year. Not required of students in a teacher training curriculum.

Fall and Spring (2).

2. Personal and Civic (Women).

An informational course reviewing the principles underlying the improvement and preservation of personal and civic health. Social hygiene in its relations to the practical problems of young women and prospective home makers. A detailed study of the laws and procedures in local civic health matters of particular interest to women. Required of all freshmen who are candidates for the junior certificate or the degree in the liberal arts curricula, but not required of students in a teacher training curriculum.

Fall and Spring (2).

INDUSTRIAL ARTS

LOWER DIVISION COURSES

3A. Mechanical Drawing.

WALLING

Use and care of drafting instruments, lettering, orthographic projections, developments, intersections, tracing. Drafting room six hours per week. Required of all engineering students who have not had one full year of drafting work in senior high school.

Spring (2).

21. Descriptive Geometry.

WALLING

Fundamental principles of descriptive geometry and their application to problems of engineering. Lectures and drafting. Prerequisites: Industrial Arts 3A or equivalent, and sophomore standing.

Fall (3).

22. Machine Drawing.

WALLING

Design and drawing of simple machine parts with emphasis upon the production of standard drawings. Lectures and drafting. Prerequisite: Industrial Arts 21.

Spring (3).

23. Materials of Construction.

WALLING

Structural properties and adaptability of materials used in engineering. Lectures. Prerequisite: Sophomore standing.

Spring (2).

25. Elements of Electrical Engineering.

WALLING

Mathematical and descriptive consideration of electrical circuits

together with a general survey of the electrical industry. Lectures.
Prerequisite: Mathematics 4A.

Spring (3).

28. Elements of Heat Power Engineering.

WALLING

Fundamental consideration of fuels, combustion, steam, boilers, furnaces, chimneys, steam engines, steam turbines and auxiliaries, internal combustion engines. Lectures. Prerequisites: Mathematics 3B, Physics 1B. Primarily for engineering students other than mechanical or electrical.

Fall (3).

Aeronautics Mechanics

See detailed description of courses in Junior College Bulletin.

JOURNALISM

Lower division preparation in journalism for advanced work and the junior certificate: History 4A-4B, or 8A-8B; Psychology 1A-4A; English composition, 4 units; Secretarial Training 2A; Political Science 1A-1B or Economics 1A-1B; Journalism 51A-51B. Recommended: English literature, 6 units; Speech Arts 1A-1B; Sociology 50; Economics 18A-18B; Journalism 53A-53B.

For the profession of journalism introductory work in the fields of literature, history, political science, social science, economics, the arts, etc., is recommended.

The aim in the specialized courses in journalism is to offer introductory training in the principles and practices of journalistic writing only after a good foundation in correct speaking and writing of English has been laid. Practical training in news reporting and editing for student publications and for the daily press is emphasized.

LOWER DIVISION COURSES

Journalism 51A-51B. News Gathering and Reporting.

DICKHAUT

Study of news sources and types; practice in news writing; newspaper organization; excursions and special lectures. Course planned for sophomores who have had English 1A-1B, with high school journalism or equivalents.

Year course (3-3).

Journalism 53A-53B. Applied Journalism.

DICKHAUT

Credit earned for editorial or other staff work throughout a full semester on student publications such as *The Aztec*, *El Palenque*, *Del Sudoeste*.

Fall and Spring (1 to 3-1 to 3).

UPPER DIVISION COURSES

Journalism 100. News and Manuscript Editing.

DICKHAUT

Practice in copy reading, proof reading, headline writing, and newspaper makeup. Study of editorial pages. Prerequisite: Journalism 51A-51B, or equivalent in composition.

Spring (3).

Journalism 153A-153B. Advanced Journalism Practice. **DICKHAUT**

Upper division work of the same type as that in 53A-53B, but with advanced requirements.

Fall and Spring (1 to 3-1 to 3).

NOTE.—Not more than six units in all will be given for journalism practice on student publications.

LIBRARY SCIENCE

LOWER DIVISION COURSE

10. Use of the Library.

STONE

The chief object is to give a working knowledge of some of the resources of the library which every teacher and student should understand—the decimal classification, the card catalog, periodical indexes, and the most important reference books, together with some instruction in the preparation of bibliographies. The course will be a requirement of those added to the library's staff of student assistants, although it will not prepare the student to become a librarian.

Fall and Spring (1).

MATHEMATICS

Lower division preparation for the liberal arts major in mathematics and for the junior certificate: Mathematics 3A-3B, 4A-4B with an average grade of C or better; Economics 1A-1B; Physics 1A-1B or 2A-2B. With permission of the department, Mathematics 7A-7B may replace 3A-3B. Recommended: Astronomy 1, Mathematics 2, Surveying 1A and a reading knowledge of French or German. Students who intend to do work in mathematics beyond the A.B. degree should take either Mathematics 106 or 111 while in the lower division; for scholarship record required for taking upper division courses while in the lower division, see page 65.

Liberal arts major (upper division): Twenty-four units of upper division courses, with a minimum of eighteen in mathematics and a maximum of six in closely related fields, arranged in consultation with the chairman of the department and completed with an average grade of C or better.

For the academic teaching major or minor, most students will want to include either Mathematics 105 or 106 or both, also Mathematics 111. Candidates for the elementary or junior high school credential are urged to include the lower division course in Foundations of Arithmetic.

LOWER DIVISION COURSES

A, B, C, D, E, F, G, Introductory Mathematics.

LIVINGSTON

Instruction and supervised study in elementary mathematics. Students who have taken these courses previously may take them for review, others for the credit indicated. Courses A and D are equivalent to one and one-half years of algebra in high school; A, D and G to two years.

Students regularly enrolled in courses C, D, E, F or G shall be expected to complete at least one course for credit; except that students who begin with an extensive review may withdraw without penalty before the time of the mid-term reports.

- A. Algebra to quadratic equations (2).
- B. Plane geometry (2).
- C. Plane trigonometry (2).
- D. Algebra beyond quadratics (1).
- E. Solid geometry (2).
- F. Spherical trigonometry (1).
- G. Intermediate algebra (2).

Fall and Spring.

1A-1B. Elementary Analysis.

LIVINGSTON

A general course including topics from algebra, trigonometry, analytic geometry and calculus. Intended for those not fully prepared to take the formal courses in analytic geometry and calculus. May be followed by 3A-3B if desired. Prerequisites: Elementary algebra and geometry in high school, or Mathematics A-B.

Year course (3-3).

2. Mathematics of Investment.

WRIGHT

Interest and annuities; amortization; sinking funds; valuation of bonds; depreciation; mathematics of building and loan associations; mathematics of life insurance. Prerequisites: Trigonometry and two years of algebra in high school, or equivalents.

Fall (3).

3A-3B. Analytic Geometry and Calculus.

GLEASON, WALLING

Analytic geometry and differential calculus, together with an introduction to the integral calculus. Prerequisites: Trigonometry, plane geometry, and two years of algebra in high school, with recommended grades, or permission of the department.

Year course (3-3).

4A-4B. Intermediate Calculus.

GLEASON, LIVINGSTON

Integration, partial differentiation, infinite series and multiple integrals. Prerequisite: Mathematics 3A-3B, or 7A-7B. Solid geometry is strongly recommended.

Year course (3-3).

7A-7B. Introduction to Analysis.

LIVINGSTON

Trigonometry, analytic geometry, differential calculus, introduction to integral calculus. Prerequisites: Plane geometry and two years of high school algebra, or equivalents.

Year course (4-4). (Not offered in 1936-1937.)

19. Foundations of Arithmetic.

GLEASON

A connected idea of the subject of arithmetic. Beginning with counting, the number system is developed and the four fundamental operations extended accordingly. Applications are made in the fields of commerce and science. Prerequisite: Sophomore standing.

Spring (2).

UPPER DIVISION COURSES

105. Modern Geometry.

LIVINGSTON

The geometry of the circle and the triangle. Prerequisite: Mathematics 3A or 7A.

Fall (3).

106. Projective Geometry.

LIVINGSTON

The construction and study of conic sections; perspectives, poles and polars, and involutions. Prerequisite: Mathematics 3A or 7A.

Fall (3). (Not offered in 1936-1937.)

111. Theory of Equations.

GLEASON

General solutions of algebraic equations; approximate numerical solutions; applications. Prerequisite: Mathematics 3A or 7A.

Fall (3).

112. Analytic Geometry of Space.

GLEASON

Planes, lines, and quadric surfaces. Prerequisite: Mathematics 3A-3B or 7A-7B.

Fall (3). (Not offered in 1936-1937.)

118. Advanced Calculus.

LIVINGSTON

Selected topics in advanced calculus, exclusive of differential equations. Prerequisite: Mathematics 4A-4B, or 4A with 4B taken concurrently.

Spring (3).

119. Differential Equations.

GLEASON

Ordinary differential equations of first and second order, with applications. Prerequisite: Mathematics 4B or permission of instructor.

Spring (3). (Not offered in 1936-1937.)

140. Statistical Theory and Method.

PERRY

Statistical theory and method from the mathematical standpoint; applications in social and natural science. Prerequisite: Mathematics 4A-4B, Economics 1A-1B and senior standing.

Spring (3).

199A-199B. Special Study.

GLEASON, LIVINGSTON

An opportunity is offered for advanced work in algebra, geometry and calculus; or for study of vector analysis, theory of numbers, history of mathematics or teaching of mathematics. Adapted to the needs of individual students. Prerequisite: Mathematics 4A-4B and at least nine units of upper division courses in mathematics with an average grade of B.

Fall or Spring (1 to 3, each semester).

MUSIC

Candidates for a teaching credential in music should refer to the statement "Admission to Upper Division Teacher Training" on page 32 and to the other degree requirements on that page and those following. The curriculum for the A.B. Degree with a Special Secondary credential in Music is on page 46.

Candidates for a liberal arts major in music should refer to the details of that curriculum on pages 56, 59.

For information regarding majors and minors in music, and other details not found here, consult the Music Education Adviser.

For courses in Appreciation and History of Music, see Aesthetics, page 66.

LOWER DIVISION COURSES

1A. Music Reading and Ear Training—Fundamentals of Music.

L. D. SMITH

Elementary music theory; scale construction; drill in music reading both with syllables and with words; ear training, elementary music dictation; the elements and materials of music. Basic course used as prerequisite for all advanced music work and for the courses in music education. Text—Gehrkens: Fundamentals of Music.

Fall and Spring (2)..

1B. Music Reading and Ear Training.

L. D. SMITH

Tonal and rhythmic dictation, rhythmic writing, sight singing with Latin syllables and with words. Text—Wedge: Ear Training and Sight Singing. Prerequisite: Music 1A, or the equivalent.

Spring (2).

1C-1D. Advanced Music Reading and Ear Training.

L. D. SMITH

Tonal and rhythmic dictation, rhythmic writing, and sight singing in two and three parts. Text—Wedge: Advanced Ear Training and Sight Singing. Prerequisite: Music 1A-1B.

Year course (2-2).

4A-4B. Elementary Harmony.

BEIDLEMAN

Scale construction, intervals, chords, structure, modulation, through various types of seventh chord. Especial attention is paid to the keyboard application of problems in harmonization, transposition, and modulation. Prerequisites: Music 1A-1B, or the equivalent, and at least one year of piano study. Not open to freshmen.

Year course (3-3).

9A-9B*. Violin.

BEIDLEMAN

Class instruction for beginners, intended to develop some facility in playing and a thorough theoretical and practical knowledge of the instrument. Especially intended as preparation for orchestral directing.

Year course (1-1).

19A-19B*. Instrumental Music.

BEIDLEMAN

A composite course, including:

(a) Instrumental Ensemble. The practice and performance of music for small groups of string, wind, and brass instruments. Prerequisite: A fair amount of playing ability on some orchestral instrument.

(b) Instrumental Conducting. Theory and practice, with study of materials and methods. Not open to freshmen. Prerequisite: Music 1A-1B.

Year course. Units: (a) alone, $\frac{1}{2}$; (b), with (a), 1.

20*. Vocal Music.

L. D. SMITH

A general course open to all students. Mixed harmony in two, three, and four parts; voice quality; phrasing, interpretation, and enunciation considered in detail; study of song material suitable for junior and senior high school. Choral conducting.

Fall and Spring (1).

UPPER DIVISION COURSES

105A-105B. Advanced Harmony.

BEIDLEMAN

Completion of harmonic theory; modulation, inharmonic tones, etc. Continuation of harmonic analysis, and keyboard harmony. Melody harmonizing. Prerequisite: Music 4A-4B.

Year course (3-3).

106A-106B. Applied Harmony.

BEIDLEMAN

Including counterpoint, form and analysis, keyboard harmony, creative work, and instrumentation—theory and practice of arranging music for instrumental combinations. Prerequisite: Music 105A-105B.

Year course (3-3).

109.* Violin. (See Music 9.)

BEIDLEMAN

119.* Instrumental Music. (See Music 19.)

120.* Vocal Music. (See Music 20.)

L. D. SMITH

MUSICAL ORGANIZATIONS

(For music majors, credit allowed only in conjunction with Applied Music study. See below.)

11 or 111.* Treble Clef (Women's) Glee Club.

L. D. SMITH

Membership based on competitive try-outs.

(1-1). (Not more than 4 units may be counted toward the A.B. degree.)

12 or 112.* Men's Glee Club.

BEIDLEMAN

Membership based on competitive try-outs.

(1-1). (Not more than 4 units may be counted toward the A.B. degree.)

13 or 113.* Orchestra.

BEIDLEMAN

(1-1.)

14 or 114.* Band.

BEIDLEMAN

(1).

Applied Music

Credit in Applied Music is available only for students enrolled in music classes or organizations, and is subject to special permission and arrangement. Credit is not allowed for beginning work in Applied Music. *Credits:* 1 unit per semester, for not less than one lesson per week, with six hours of practice per week, totaling at least ten hours instruction and one hundred hours practice per semester. Applied Music is taken under outside private teachers, subject to the approval and supervision of the

* These courses are recorded by using letters with the number in alphabetical sequence for each semester the course is pursued, as for example, Music 9A, 9B, 9C, etc.

music department of the college, which determines credit value and grades by examination.

ORCHESTRAL INSTRUMENTS: Music 16 or 116.* Credit for study of an orchestral instrument is granted only upon satisfactory completion of work for an equal length of time in Music 19, 119, Instrumental Music; and/or Orchestra or Band.

VOICE: Music 17 or 117.* Credit granted only upon satisfactory completion of work for an equal length of time in Music 20, 120, Vocal Music and/or Glee Club.

PIANO (or Organ): Music 18 or 118.* Prerequisite: The ability to play satisfactorily hymns and folk songs of the type found in the Golden Book of Favorite Songs.

Minimum attainment for completion of piano requirement in music curriculum is the ability to play at sight accompaniments such as are found in the Teachers Manuals of the Progressive Music Series, Books Three and Four.

PHILOSOPHY

LOWER DIVISION COURSES

5A. Introduction to Philosophy.

STEINMETZ

Elementary orientation; the persistent problems of philosophy, especially in epistemology, metaphysics, and ethics; the Republic of Plato and social systems. Prerequisite: Sophomore standing, or consent of instructor.

Fall (3).

5B. The Philosophy of Science.

STEINMETZ

The problems of philosophy systematized according to the main modern divisions of science; the achievements and perplexities of scientific fields; the nature and place of values in a universe of facts. Prerequisite: Philosophy 5A, except that sophomores planning to major in natural science may be admitted without prerequisite.

Spring (3).

UPPER DIVISION COURSES

105B. The Philosophy of Science.

STEINMETZ

Same as Philosophy 5B, save that upper division students will be held to more exacting contribution.

Spring (3).

120. Logic, and Philosophy of Mind.

STEINMETZ

Formal and functional logic; examination of reflective procedures in various fields; epistemological assumptions and traditional viewpoints, especially as illustrated in recent scientific writings; review of some psychological, experimentally supported explanations of thought. Prerequisites: Psychology 1A and Philosophy 5A.

Spring (3). (Offered in even-numbered years.)

* These courses are recorded by using letters with the number in alphabetical sequence for each semester the course is pursued, as for example, Music 9A, 9B, 9C, etc.

PHYSICAL EDUCATION

Men's Department

Candidates for a teaching credential in physical education should refer to the statement "Admission to Upper Division Teacher Training" on page 32.

LOWER DIVISION COURSES

A two-hour activity course each semester is required for the two years of lower division. A medical examination is given each student when entering and the work is fitted, as far as possible, to his needs. The content of the required two years is planned to give each student fundamental training in those sports which have carry-over value into after life. Opportunity is given all students to take part in the regular competitive sports program.

1A-1B. Freshman activity.

Year course, beginning either Fall or Spring ($\frac{1}{2}$ - $\frac{1}{2}$).

1C-1D. Sophomore activity.

Year course, beginning either Fall or Spring ($\frac{1}{2}$ - $\frac{1}{2}$).

Class sections are so arranged that the student may choose the activity he is most desirous of learning. Fundamentals of the sports listed are taught during the class hour.

2A-B-C-D. Golf. Spring ($\frac{1}{2}$).

3A-B-C-D. Track. Spring ($\frac{1}{2}$).

4A-B-C-D. Baseball. Spring ($\frac{1}{2}$).

5A-B-C-D. Basketball. Spring ($\frac{1}{2}$).

6A-B-C-D. Tennis. Fall and Spring ($\frac{1}{2}$).

7A-B-C-D. Boxing. Fall and Spring ($\frac{1}{2}$).

8A-B-C-D. Wrestling. Fall and Spring ($\frac{1}{2}$).

9A-B-C-D. Fall track. Fall ($\frac{1}{2}$).

10A-B-C-D. Swimming. Spring ($\frac{1}{2}$).

11A-B-C-D. Fencing. Fall and Spring ($\frac{1}{2}$).

13A-B-C-D. American football. Fall ($\frac{1}{2}$).

13X-Y-Z. Spring football. Spring ($\frac{1}{2}$).

14A-B-C-D. Gymnastics. Spring ($\frac{1}{2}$).

The following courses fulfill degree requirements for physical education majors and meet state requirements for teaching credentials in physical education.

30. Emergencies.

C. E. PETERSON

The accepted procedure in meeting the emergencies which daily arise in schoolroom, play or athletic field, beach, mountains, or any of the many

places where the physical director is called on for first aid. Special attention given to the arrangement of the apparatus and the activities so that many of the most common accidents are prevented or minimized.
Fall (1).

54. Physical Education in the Elementary School (Men) GROSS

Physical education problems that arise in the everyday experience of the instructor in physical education and the classroom teachers, such as organization and administration of activities, health administration, classification of children for play activities, playground supervision, arrangement and care of equipment, and the like. Material presented in latest State Department Manual used as basis.

Fall and Spring (2).

62A. Gymnastic Activities. C. E. PETERSON

Theoretical and practical work in marching, free exercises, and light and heavy apparatus. Emphasis on progression and method of presenting material. The simplest and most explanatory terminology.

Fall (2). (Offered in odd-numbered years.)

62B. Gymnastic Activities. C. E. PETERSON

Acquisition of proficiency in the performance of a great group of gymnastic stunts always popular in the gymnasium and on the playground. Work of the recreational or self-interesting type rather than the formal. Tumbling, stunts, and pyramid-building given chief attention, although games of low organization are also considered.

Spring (2). (Offered in even-numbered years.)

66. Playing Rules of Modern Games. GROSS

Thorough study of latest rules of modern major and minor sports.

Fall and Spring (1).

72. Principles of Physical Education. CALLAND

Cultivation of a favorable attitude for a professional study of physical education. Ideals and aims of physical education and the relation of physical education to school and society stressed.

Fall (2).

UPPER DIVISION COURSES

151. Health Education.

(See Women's Department.)

Fall and Spring (2).

154. Organization and Administration of Physical Education GROSS

Material presented in Physical Education 54 plus general and specific problems that confront physical education departments in junior and senior high schools and in colleges. Prerequisite: Physical Education 72.

Fall and Spring (3).

155. Applied Anatomy. C. E. PETERSON

Mechanics of the human skeletal and muscular-systems and their

actions in games, formalized activities, and general body movements; mechanical strength and durability as influenced by anatomical factors.
Spring (2). (Offered in odd-numbered years.)

156A. Sports Methods.

C. E. PETERSON AND STAFF

Different theories and methods of teaching the more highly organized sports: baseball, basketball, tennis, and track.

Fall (2). (Offered in even-numbered years.)

156B. Sports Methods.

C. E. PETERSON AND STAFF

Methods of teaching those sports most adaptable to intramural and interclass competition: golf, handball, soccer, speedball, and volley ball.

Spring (2). (Offered in odd-numbered years.)

166. Technique of Officiating.

GROSS

Review of material presented in Physical Education 66. Methods of officiating all the sports common to the school or college program; also methods of training student officials. Practice in the handling of elementary, junior high, senior high and intramural college competition.

Spring (2).

169. Technique of Teaching Activities.

PHYSICAL EDUCATION STAFF

Directed leadership in activities. A course preliminary to practice teaching in which students are given opportunity to develop leadership and teaching technique.

Spring and Fall (1-2).

171. Community Recreation.

C. E. PETERSON

Planned to meet the needs of the various workers in community playground systems apart from schools, as well as the needs of directors of play and recreation in social service institutions, industrial plants, shops, and factories. Special attention given to scout and campcraft.

Spring (2). (Offered in even-numbered years.)

180. Theory of Coaching Football.

CALLAND

Methods of coaching football. Details of teaching individual fundamentals, offensive and defensive team play, strategy, and conditioning of athletes. Two hours of lecture and three hours of laboratory.

Spring (2).

PHYSICAL EDUCATION

WOMEN'S DEPARTMENT

Candidates for a teaching credential in physical education should refer to the statement "Admission to Upper Division Teaching Training" or page 32.

LOWER DIVISION COURSES

All new students are given a medical examination to the end that the physical needs of each student may be determined and her work planned accordingly. Two hours weekly of directed physical activity are required in freshman and sophomore years. Emphasis is upon rhythmic activities, games, and sports. In order to meet this requirement, students taking the curriculum leading to the A. B. degree with an elementary credential

must take Physical Education 36A-36B, 37, and 38A. Those seeking the junior certificate or the degree in any of the liberal arts curricula or the degree with the junior high school credential or with a special credential in art, commerce, or music, are required to take Physical Education 36A-36B, 38A-38B.

36A. Rhythms, and Formalized Activities.

SCHWOB

For first semester freshmen.

Fall and Spring ($\frac{1}{2}$).

36B. Recreational Games.

BENNETT, SHAFER

For second semester freshmen.

Fall and Spring ($\frac{1}{2}$).

37. Games and Rhythms for the Elementary School. SCHWOB, SHAFER

Prerequisite: Physical Education 36A-36B.

Fall and Spring ($\frac{1}{2}$).

38A and 38B. Sports and Dancing.

PHYSICAL EDUCATION STAFF

For sophomores. Prerequisites: Physical Education 36A, 36B.

Fall and Spring ($\frac{1}{2}$ each).

53. Physical Education in the Elementary School.

SCHWOB

Physical education problems, administration of tests, methods of classifying children for play activities, developing leaders, and carrying on intramural ideals. Particular attention given posture problems. The content of the state program in physical education forms the basis of the course. Prerequisite: Physical Education 37 must precede or accompany.

Fall and Spring (2).

SPORTS

1. Women not majoring in physical education may earn upper division credit in Physical Education 55, 56, 57, or 59 by special permission of the department director.

2. The Individual and Dual Sports swimming, tennis, golf and archery are offered throughout the year. Women majoring in physical education select *one* Individual or Dual Sport as a major activity and two others as minors. Skills in the sports thus selected must be maintained as prerequisite to the senior course, Physical Education 185. (See page 118.)

3. The Seasonal Group Sports are volley ball, basketball, hockey, speed-ball or soccer, and baseball. Majors participate in at least *two seasons* of each.

4. The Woman's Athletic Association sponsors the Intramural Sports program. Under its direction competition in dual and group games is promoted throughout the year. Open to all college women.

55. Swimming.

SHAFER

- | | | |
|-----------------|---|---------------------|
| A. Beginning | } | $\frac{1}{2}$ unit |
| or | | |
| B. Intermediate | } | $\frac{1}{2}$ unit. |
| C. Life Saving. | | |

55A or 55B, and 55C are required of freshmen women majoring in physical education.

56. Tennis.

SHAFFER, BENNETT

Required of sophomore women majoring in physical education.
($\frac{1}{2}$).

57. Golf.

SCHWOB, SUPERVISING

Required of women majoring in physical education.
($\frac{1}{2}$).

59. Archery.

SHAFFER

Required of women majoring in physical education.
($\frac{1}{2}$).

UPPER DIVISION COURSES

102. Emergency and Safety Programs.

SHAFFER

Means by which the number of accidents, especially among children, may be reduced on street, playground, or at home; practical application of first aid methods. Of value to classroom teachers as well as to specialists in physical education.
(1).

151. Health Education.

A course for teacher-training students which includes the study of the diseases, common physical defects, and health indices of school children; the detection and control of communicable diseases which may appear in the school; and the elements which underlie a health education program. Methods of presenting personal and group health to children of different ages. Hygiene of the schoolroom, such as seating, lighting, and ventilation.

Fall and Spring (2).

153. Administration of Secondary Physical Education.

Study of department organization and procedures with practical experience in administration. The college department and like departments in high school serve as laboratories. Open only to seniors majoring in physical education.
(2).

154. Applied Anatomy.

A study of the movements of the human body with especial reference to the physical activities and capacities of girls and women.
(2).

157A-157B. Sports Methods.

SHAFFER

Practice for skill, study of rules, and of coaching methods. Prerequisite: A season's experience in at least four of the following sports—volley ball, basketball, hockey, speedball, soccer, baseball.
Year course (2-2).

158. Stunts and Tumbling.

BENNETT

A practical course in personal technique. Progressive series of individual, dual, and group stunts, including simple pyramids.
($\frac{1}{2}$).

160. Principles of Teaching Gymnastics.

SCHWOB

Gymnastic materials and methods followed by practice in teaching marching gymnastics and apparatus.

(2).

161. Folk Dancing.

SCHWOB

Practice in folk and clog dancing. Methods of presentation and study of costumes and customs related to the dance. Notebooks required. Open to all upper division women.

(2).

164. Natural Dancing.

SCHWOB

Practice in natural dancing, including free rhythms, simple dance forms and creative dancing. Open to all upper division women. Prerequisite: Physical Education 36A.

(2).

169. Technique of Teaching Activities.

SCHWOB

Observation, lesson planning, and teaching of college classes.

Fall and Spring (3).

170. Recreational Leadership.

SHAFFER AND ASSISTANTS

Fundamentals of recreational leadership developed by instruction in Scout craft, Camp Fire lore, Girl Reserve activities, the study of school recreational needs and facilities, and of civic recreation. Open to all upper division women. Recommended to students interested in the recreational aspects of social service.

(2).

173. Principles of Physical Education.

The relation of physical education to other phases of education, with emphasis upon health and social adaptation.

(2).

175. Current Problems in Physical Education.

SCHWOB

The latest phases of general physical education; problems particularly related to the work with younger children, girls, and college women; the responsibility of the physical instructor toward emergencies and health service. Open only to seniors majoring in physical education.

(2).

177. Individual Program Adaptations.

SCHWOB

Adjustments of the physical education program to the physical needs and capacities of individuals; problems concerning protective and preventive measures which are not highly specialized corrective phases.

(2).

178A-178B. Camp Fire and Girl Scout Leadership.

The principles and procedures fundamental to leadership in these two important organizations for girls taught by authorized local directors. Open to all students.

A. Camp Fire Leadership (1).

B. Girl Scout Leadership (1).

185. Technique of Individual and Dual Sports and Games.

SHAFFER

A course summarizing rules, teaching methods, and individual playing ability. A required senior course. Can not be taken until all requirements regarding sports and games have been fulfilled. (See page 115.)
(3).

PHYSICAL SCIENCE

1. Introductory.

MOE

A survey course dealing with the nature of man's physical universe. The subject matter covered includes work in fields of astronomy, chemistry, geology and physics; chosen to provide a background for present-day physical science thought. Not open to students who have taken high school or college physics and chemistry or three courses in high school or college physical science including either physics or chemistry.

Fall and Spring (3).

PHYSICS

Lower division preparation for the liberal arts major in physics and for the junior certificate: Physics 1A-1B-1C-1D; Chemistry 1A-1B; Mathematics 3A-3B and 4A-4B, or their equivalents. Recommended: A reading knowledge of French and German.

Liberal arts major (upper division) in physics, required: Twenty-four units of upper division work in physics including Physics 105A-105B and 107A-107B. Six of the twenty-four units may be elected in related subjects on consultation with the chairman of the department.

For requirements for liberal arts major in physical science, see pages 56, 59.

LOWER DIVISION COURSES

1A-1B. General.

MOE

Mechanics, properties of matter, and heat. A development of the fundamental ideas which underlie the subject of physics, and the application of them in the discussion of practical problems. Lectures, text assignments, problem sets, and experimental laboratory work. Two lectures, and one laboratory period each week. Prerequisites: High school physics or chemistry and trigonometry.

Year course (3-3).

1C-1D. General.

BAIRD

A continuation of Physics 1A-1B for students in the sophomore year, including magnetism, electricity, sound, and light. Two lectures and one laboratory period each week.

Year course (3-3).

2A-2B. General.

BAIRD

Properties of matter, mechanics, heat, sound, light, electricity, and magnetism. A nonengineering course. Lectures, demonstrations, and discussions. Prerequisite: Two years of high school mathematics.

Year course (3-3).

3A-3B. Physical Measurements.

BAIRD

Laboratory work in mechanics, properties of matter, heat, sound, light,

electricity, and magnetism. Usually taken in conjunction with Physics 2A-2B.

Year course (1-1.)

UPPER DIVISION COURSES

105A-105B. Analytical Mechanics.

MOE

Treatment of fundamental principles of statics, kinematics and dynamics of particles and rigid bodies. Prerequisites: Physics 1A-1B or 2A-2B and a working knowledge of calculus.

Year course (3-3). (Offered in even-numbered years.)

106. Optics.

BAIRD

Refraction, color, interference, diffraction, polarization, radiation, and optical instruments.

Fall (3). (Offered in even-numbered years.)

107A-107B. Electrical Measurements.

BAIRD

Devoted mainly to the study of potentiometer methods, capacity, inductance, resistance, and magnetic flux. Two lectures and one laboratory period each week. Prerequisite: Eight units in physics.

Year course (3-3). (Offered in odd-numbered years.)

108. Modern.

BAIRD

An introductory survey of the problems of modern physics. Theories of atomic structure and series in optical spectra, radioactivity, conduction of electricity through gases, radiation and the quantum theory. Prerequisite: Eight units in physics.

Spring (3). (Offered in odd-numbered years.)

112. Advanced Heat.

MOE

Thermal properties of matter. An introduction to the kinetic theory of gases and the laws of thermodynamics. Prerequisites: Eight units in physics and a working knowledge of calculus.

Spring (3). (Offered in even-numbered years.)

114. Wave Motion and Sound.

MOE

A study of wave motion and its applications to sound production and transmission. The principles of musical instruments and architectural acoustics.

Prerequisite: Eight units in physics.

Fall (3). (Offered in odd-numbered years.)

199. Special Study.

BAIRD, MOE

Reading or work on special problems in physics. Admission by consent of the instructor. Credit and hours to be arranged in each case. Open to students who have completed at least eight units of work in the department with grade of A or B.

Fall and Spring (1 or 2—1 or 2).

POLITICAL SCIENCE

Lower division preparation in political science for advanced work and for the junior certificate: Political Science 1A-1B and Economics 1A-1B

or History 4A-4B. High school civics is presupposed in the following courses:

LOWER DIVISION COURSES

1A-1B. Comparative Government.

LEONARD

A comparative study of typical governments. Semester I: England, France, and Switzerland. Semester II: Italy, Germany, Russia, and Japan.

Year course (3-3).

UPPER DIVISION COURSES

101. American Institutions.

LEONARD

Origins and principles of the United States Constitution, and a survey of the political institutions which have developed under it.

Prescribed by the State law for all candidates for the bachelor's degree. Enrollment is limited to juniors and seniors, except with the consent of the instructor. Attention is called to the fact that this course is offered only during the Fall semester.

Fall (2).

111. Theory of the State.

LEONARD

The nature of the State, its organization and activities, and its relation to individuals and to other states.

Fall (3).

113. American Political Ideals.

LEONARD

Underlying theories and principles of American governmental policy.

Spring (3).

151. Governmental Organization in the United States.

LEONARD

Origins; the federal system; organization, powers and functions of the executive, legislative, and judicial branches of the National government and expansion of its activities; the party system.

Fall (3). (Not offered in 1936-1937.)

152. Popular Government in the United States.

LEONARD

Development of the means for democratic control of government in the United States: the history, motivation, methods and control of political parties; party machines; election systems; influence of minority groups; the lobby; the press.

Spring (3). (Not offered in 1936-1937.)

PSYCHOLOGY

Lower division preparation in psychology for advanced work and the junior certificate. Required: Psychology 1A-1B, Zoology 1A-1B, or Biological Science 10A-10B, Philosophy 5A-5B. Recommended: French, German, chemistry, physics, and anthropology.

LOWER DIVISION COURSES

1A. General.

BELL, STEINMETZ

An elementary survey of normal adult psychology, focused upon personality; the subjective and objective aspects of behavior. Furnishes basis

for all other courses in psychology. Prerequisite: Sophomore standing.
Fall and Spring (3).

1B. General.

BELL, STEINMETZ

A continuation of general psychology designed to familiarize the student with (1) elementary experimental methods, (2) famous experiments in psychology, and (3) some one topic (not included in upper division courses) in which he pursues an independent experimental approach. Prerequisite: Psychology 1A.

Spring (3).

4A. Applied.

BELL

Applications of psychology to problems of the individual in learning, making social adjustments, choosing a vocation, developing desirable personality traits, and achieving success and happiness. Survey of psychology as applied in education, music, art, speaking, writing, law and medicine. Prerequisite: Psychology 1A. Recommended: Psychology 1B.

Fall (2).

4B. Psychology Applied in Business.

BELL

Applications of psychology to a wide range of problems encountered by the man in business. Motives, attitudes, habits, and traits in their relation to behavior of employer, employee, and executive. Advertising, salesmanship, and problems of selecting, placing and increasing the efficiency of employees. Business cycles, and business research. Prerequisite: Psychology 1A. Recommended: Psychology 1B.

Spring (2).

UPPER DIVISION COURSES

102. Genetic (Growth and Development of the Child).

BELL, STEINMETZ

The mental and physical growth and development of the child, especially with relation to norms of structure and function. Diagnosis of individual children by comparison with norms. Behavior problems and the growth of personality traits as conditioned by physical and mental factors. An intensive study of one child presenting a problem of physical or mental maladjustment made by each student. Prerequisite: Psychology 1A. Recommended: Psychology 1B.

Fall and Spring (3).

105. Mental Testing.

BELL

A brief history of intelligence testing and the fundamental assumptions underlying the construction of tests. The Stanford revision of the Binet-Simon test illustrated by demonstrations. Each student required to give at least 20 individual tests. Group intelligence tests discussed and demonstrated. Prerequisites: Psychology 1A and Education 108. Recommended: Psychology 1B, 102, Education 140.

Fall (3).

118. Mental Hygiene.

BELL

Designed primarily for teachers, nurses, physicians and social workers. Problems, personality adjustment, emotional problems, attitudes, conflicts, neurotic behavior, conduct disorders of both child and adult.

The beginnings of undesirable attitudes and habits and methods of treating them are stressed more than serious cases of maladjustment which are either incurable or problems for a psychiatrist. The methods of building wholesome personality are emphasized more than the analysis of extreme disorders. Prerequisite: Psychology 1A. Recommended: Psychology 1B, 102.

Fall (2).

120. History of Psychology.

BELL, STEINMETZ

Historical development of psychology out of mental philosophy; sensationism; the body-mind problem; associationism; structuralism; functionalism; rise of the schools and experimental procedures. Prerequisites: Psychology 1A, 1B.

Fall (2). (Offered in even-numbered years.)

140. Contemporary Psychology.

STEINMETZ

Psychoanalysis, behaviorism, and Gestalt psychology; the modern eclectic viewpoint; non-Aristotelian speculation; factor analysis; characteristic British, French, German, and American contributions; outstanding problems, publications and fields. Prerequisites: Psychology 1A, 1B, 120, or other upper division work in the department provided instructor and head of the department consent.

Spring (2). (Offered in odd-numbered years.)

145. Social.

BELL

Personality as it develops in relation to social environment. Suggestion, imitation, leadership, the crowd, public opinion, social control, prejudice, propaganda, sex differences, race differences, etc. Prerequisite: Psychology 1A. Recommended: Psychology 4B.

Spring (3). (Offered in odd-numbered years.)

Educational Psychology. See Education 130.

Educational Measurements. See Education 108.*

SPANISH

(See Foreign Languages)

SPEECH ARTS

(See English)

SURVEYING

LOWER DIVISION COURSES

1A-1B. Plane Surveying.

GLEASON

Use and adjustment of surveying instruments, computations and map-making, together with a study of land, topographic, city, and mine surveying. Two instruction periods and one three-hour period for field

* Students taking a curriculum in which Education 108 is required, must substitute another three-unit course in education, if they wish to count Education 108 in a psychology minor.

work and mapping each week. Prerequisites: Trigonometry and Industrial Arts 3A, or equivalent, and sophomore standing.

Year course (3-3).

3. Summer Class in Surveying.

Practical field problems in reconnaissance, triangulation, location and topographic surveys. Observations for meridian, time and latitude. Precise work in linear and angular measurements. Development of self-reliance, accuracy, and professional skill on the part of the student. Four weeks course held in the mountains near San Diego. For details regarding location of camp, date of registration, date of opening, and other arrangements, a special announcement of the surveying camp may be secured at the Registrar's Office. Prerequisite: Surveying 1A-1B.

Summer (3).

ZOOLOGY

(See Biological Sciences)

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BULLETIN
AND ANNOUNCEMENT
OF COURSES

SAN DIEGO STATE COLLEGE
S A N D I E G O , C A L I F O R N I A

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JUNE, 1937

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CALENDAR 1937-1938

SUMMER SESSIONS, 1937.

Term I, six weeks, June 21-July 30.

Term II, three weeks, August 2-August 21.

FALL SEMESTER, 1937-1938.

September 8 and 10—Wednesday and Friday. Orientation Program for all New Students (Attendance Required).
Aptitude Test—8:00 A.M., September 8.
Fundamentals Test—8:00 A.M., September 10.

September 9—Thursday. Office closed.

September 13—Monday. 8:00-12:00 A.M., and 1:00-4:00 P. M. All students register and pay fees.

September 14—Tuesday. Instruction begins. Late registration fee becomes effective.

November 11—Thursday. Armistice Day Holiday.

November 25 and 26—Thursday and Friday. Thanksgiving Recess.

December 17—Friday. Christmas Recess Begins.

January 3—Monday. Classwork Resumes.

January 20-27 incl.—Mid-Year Examinations.

SPRING SEMESTER, 1938.

January 31 and

February 1—Monday and Tuesday. Orientation Program for all New Students (Attendance Required).
Aptitude Test—8:00 A.M., January 31.
Fundamentals Test—1:00 P.M., January 31.

February 2—Wednesday, 8:00-12:00 A.M. and 1:00-4:00 P. M. All students register and pay fees.

February 3—Thursday. Instruction begins. Late registration fee becomes effective.

February 22—Tuesday. Washington's Birthday Holiday.

April 11-15 incl.—Easter Recess.

May 1—Sunday. Founder's Day Celebration.

May 30—Monday. Memorial Day Holiday.

June 2-9 incl.—Final Examinations.

June 10—Friday. Annual Commencement Exercises.

SUMMER SESSIONS, 1938.

Term I, six weeks, June 20-July 29.

Term II, three weeks, August 1-August 19.

THE COLLEGE

Historical Sketch

The growth of the San Diego State College has involved three stages of development. When it was established by legislative enactment in 1897 it was known as the State Normal School of San Diego. It opened its doors in 1898.

The second cycle of its growth began in 1921 when the legislature converted all the California normal schools into State teachers colleges. During the same year, the San Diego Junior College was merged with the teachers college. Lower division courses were then available in a single institution for the various types of students in the community. From 1927 to 1934, the junior college relationship was discontinued, and the teachers college carried the lower division offerings. These offerings were enriched when the junior college arrangements were resumed in September, 1934.

The four-year curricula, leading to an A. B. degree with a major in education, were established in 1923. At that time and subsequently, the State Board of Education authorized the following teaching credentials, which were to be granted in connection with the degree: general elementary, general junior high school, general junior high-general elementary; special secondary in art, business education, music, and physical education. Presecondary curricula were first authorized by the State Board of Education in 1928 and major subjects were approved from time to time until a total of thirteen was finally reached: art, chemistry, commerce, economics, English, geography, history, mathematics, music, physical science, physics, Romance languages, and zoology.

In September, 1935, the college entered upon its third phase when it became, by legislative enactment, the San Diego State College. This enabled the college to drop the requirement in education courses from the curricula previously known as presecondary and to convert them into liberal arts curricula leading to the A. B. degree with any one of the thirteen majors enumerated above. Thus, while still retaining teacher training as a major function, the San Diego State College is now able to offer a rather broad liberal arts program for students with varied objectives and needs.

Location and Environment

Renowned as a winter resort with a mild but invigorating climate, San Diego has become equally famous for its cool summers. High cultural standards in art, music, literature and science create a stimulating environment for a college. While San Diego is not large, it has certain admirable metropolitan advantages for the student. Many of these are to be found in the heritage resulting from the expositions of 1915-16 and 1935-36, including the buildings themselves, which portray the best

types of Spanish colonial art, and represent one of the finest exhibits in architecture in America. Housed in these buildings are exhibits in anthropology and cultural history which in many respects are unsurpassed. Cooperation with the directing boards opens to the student rare natural history and American archaeological collections. The Fine Arts Gallery contains excellent exhibitions of paintings. There are plans for the development of a Public Conservatory of Music for which the great out-of-door organ furnishes a beginning. Balboa Park, in which all of these facilities are located, also contains a modern horticultural farm. At La Jolla, the Scripps Institute of Oceanography, operated by the University of California, gives opportunity for important cooperation in biological science.

Buildings and Equipment

On February 1, 1931, the college was moved to the new campus, which is located one mile north of the city's principal east-west boulevard, El Cajon Avenue. The campus has an area of one hundred twenty-five acres. The new buildings are part of a general plan to be completed within the next few years. This plan calls for one style of architecture the Spanish-Moorish type, which is well suited to the landscape and climate of this region. The buildings now in use include the Academic Building, which houses lecture halls, classrooms, and administrative offices; the Science Building; Library; Little Theater; Training School; Scripps Cottage (a social clubhouse for women students); the Student Building, housing the cafe and bookstore; and the Physical Education Building, a structure with adequate facilities for both men and women. The gymnasium contains a very fine basketball floor with stands that will accommodate 1500 spectators. A fine concrete football stadium is in the process of construction and a portion of the stands, adequate to meet present needs, was finished for the 1936 season. Ultimately this structure will provide a seating capacity of approximately 45,000 and the final cost will be about \$425,000.

Facilities for the Training of Teachers

The college maintains a modern elementary training school on the campus where it has developed an extensive program for the education of elementary school teachers. The classroom-laboratory plan calling for the use of work-rooms, the library, and shops, affords unusual opportunities for the induction of students into teaching.

By arrangement with the Board of Education and the administrative officers of the San Diego City Schools, practice teaching for one-half day throughout a semester is provided in the Euclid elementary school and a somewhat similar arrangement exists at the Woodrow Wilson Junior High School for students who are preparing to teach junior high and special secondary school subjects. Students preparing to teach only special secondary school subjects may be assigned to one of the senior high schools.

The Library

The library facilities of this college are noteworthy for an institution of this size. The library consists of 55,000 volumes selected to meet the requirements of a modern educational institution. Seven professional

trained librarians are available to render assistance to students in their reading and reference work.

The Training School Library, representing a collection of 8000 volumes possesses equipment and building facilities that are unique.

Living Accommodations

The college does not maintain dormitories since nearly all of the students live with parents or guardians. Living arrangements for students whose homes are not in San Diego, or within commuting distance, are made through the offices of the Dean of Women and the Dean of Men. Women students must secure the approval of the Dean of Women before engaging living quarters for themselves. It is essential also that they secure permission before changing residence at any time during the year.

Student Life

A rich field of extra-curricular activities is available to the student throughout his college life. The student is urged to carefully select these activities in order that he may profit by these extra-class experiences without lowering his standards of scholarship. The Student Handbook, available at time of registration, gives information concerning activities which include organizations in every department of the college, as well as opportunity for individual and group experience in the social, athletic, fraternal, religious and governmental life of the campus.

Student Health Service

The Health Department is maintained for the protection and care of student health. A complete physical examination is required of each student upon admission to college. Careful attention is given to cases undergoing remedial treatment or to cases in which a modification of study load or of participation in physical activities seem advisable.

A representative of the Health Department is available throughout the entire day for consultation and emergency treatment. Students who have been absent because of illness should receive clearance from the Health Department before returning to classes.

Placement Service

The college offers placement services of three distinct types for students and graduates of this institution:

1. Students who seek part-time employment may register with the Dean of Women or the Dean of Men.
2. A Placement Office is maintained by the college as a clearing house of employment information for employers of State College graduates. While the purpose of this office is to assist candidates in securing positions, its primary aim is to bring about better adjustment between the teacher and community.
3. The Placement Office also serves students in liberal arts curricula who desire employment.

A complete record of college attainments is kept in a confidential file for each registrant of the office and this material is made available to employers. Recommendations are based on records which indicate every item in the candidate's equipment, and particular care is taken to select in each case the candidate who can best meet the requirements of the position. Teacher training graduates pay a fee of two dollars for each year in which active service is desired, and in turn are aided by a field worker who assists them in locating positions. Liberal arts students may register their records without charge, but no attempt is made by the office to find positions for them. Three sets of records will be issued for each liberal arts graduate without charge, after which a fee of two dollars will be made for another set of three.

Alumni Association

The college has an active Alumni Association. Since its reorganization in March, 1929, the association has steadily gained in membership. The annual Homecoming is an important event each year; other meetings take place on dates of important athletic contests. The association also sponsors the organization of Aztec clubs in various communities. Information concerning the association may be obtained by writing the secretary at the college.

FEES, EXPENSES, AND LOAN FUNDS

Probable Expenses for One Semester

An estimate of the expense of attendance for one semester is given below. No estimate is made as to the cost of clothing, or other personal items, since these figures vary with the demands of the individual. Laboratory fees are additional.

	<i>Minimum</i>	<i>Average</i>
Fees and Deposits-----	\$20.00	\$27.50
Books -----	10.00	15.00
Board and Room-----	125.00	150.00
Incidentals (transportation, lunches, student organizations, etc.) -----	35.00	50.00
	<hr/> \$190.00	<hr/> \$242.00

Before enrolling in college, the student should possess sufficient resources to meet the minimum expenses for one semester. A limited amount of clerical work in offices and in the library may be offered from time to time, but ordinarily it is not sufficiently remunerative to reduce expenses materially. An employment service is conducted by the Dean of Women and the Dean of Men to assist students who must turn part of their expenses.

List of Fees and Deposits (Subject to Revision)

PAYABLE AT TIME OF REGISTRATION

Resident students -----	\$6.50
Limited students and auditors (5 units or less)—per unit-----	2.50
Non-resident students—1st semester -----	75.00
2d and subsequent semesters-----	37.50
Late registration fee -----	2.00
Locker (key or combination padlock, each issue)-----	.25
General service deposit (paid by every student registered)-----	3.00
Chemistry deposit (each course in chemistry)-----	5.00
Physics deposit -----	2.00
Student body fee-----	5.50
Associated Men Students or Associated Women Students fee-----	.50

PAYABLE WHEN SERVICE IS RENDERED

College Aptitude Test-----	\$2.00
English—Subject A Test-----	.25
Fundamentals Test -----	.50
Placement Office -----	2.00

See page 15 for definition of residence for fee-paying purposes.

Placement Office—copy of papers—3 for-----	\$0.25
Evaluation of record for advanced standing-----	2.00
Duplicate of Library Card-----	.10
**Transcript of record (first copy free)-----	1.00
Carbon copy of Transcript of Record-----	.25
Special Examination -----	2.00

State Teaching Credentials***

Elementary	
Elementary and Junior High School	
Special Secondary	
School Administration	
School Supervision	
Each credential -----	3.00

PAYABLE DURING SEVENTH WEEK OF EACH SEMESTER

Library -----	\$1.25
Mimeographing -----	.50
Health -----	.75
Towel, Men -----	1.50
Towel, Women -----	1.00

In addition to the above, there are laboratory fees and charges for certain courses, ranging from fifty cents to seven dollars and fifty cents per course, which are payable during the seventh week of each semester.

Loans and Scholarships

Scholarships for both men and women have been made available through the efforts of the college officers, student organizations, alumni, and civic organizations. Superiority in scholarship, worthiness from the point of view of need, and contribution to the college are the standards upon which selection is based. Scholarship aid is therefore restricted to the most part to students who have completed the lower division of the college.

Both long and short term loans are available to students who have been in attendance for at least one year and who have given evidence of ability to do satisfactory college work. Application for loans is made to the Committee on Loans and Scholarships through any Dean of the college.

**The \$1.00 fee must accompany each application for a transcript of record.

***The credential fee is collected through the college by post office money order payable to the State Department of Education. This fee will be \$5.00 for students who have not resided in California one year previous to the date of their application.

ADMISSION AND REGISTRATION

General Admission Requirements

High school graduates and other applicants possessing equivalent preparation may be admitted to this college upon evidence of fitness to profit by college instruction, such fitness to be shown by previous scholastic records, evidence of good moral character and personal qualifications, and by a satisfactory score on a standard college aptitude test. Regular matriculation will be granted only after the satisfactory completion of a full semester's program of study with records indicating probable success in the chosen curriculum.

Students who enter with eight or more recommended units, earned during their last three years in high school, and who receive a satisfactory score on the College Aptitude Test will be admitted to any curricula without a restricted program. Students who fall below this standard will be given provisional standing or non-degree status and will be limited to a restricted program, or will be required to take a non-degree curriculum.

Certificates of successful examination before the College Entrance Examination Board will be accepted when candidates cannot meet the above scholarship requirements.

Credit earned in recognized institutions of collegiate grade shall be evaluated and advanced standing allowed on the basis of the evidence submitted. Credit toward the fulfillment of graduation requirements will be allowed only in so far as the courses satisfactorily completed meet the standards and requirements of the basic course pattern of this institution. Applicants for advanced standing must show an average grade of C or better in all college work previously undertaken. No applicant may disregard his collegiate record and apply for admission with freshman standing.

Not more than sixty-four semester hours of junior college work may be allowed for credit.

Students who seek to gain admission with advanced standing must furnish complete transcripts of record for all work attempted beyond the eighth grade. A two dollar evaluation fee must accompany the application for admission.

Applicants over twenty-one years of age, who are not high school graduates and who do not possess the equivalent preparation but who receive a satisfactory score on a standard college aptitude test, may be granted provisional admission as special students. Such persons may be granted full matriculation only upon the removal of all deficiencies and upon the completion of one full semester of satisfactory college work in the chosen curriculum.

Registration

Registration for the fall semester of 1937-38 will take place on September 13, and for the spring semester on February 2. Candidates for

admission should obtain an application blank from the Registrar which must be filed, with complete transcripts of record, two weeks before registration.

The college year is divided into fall and spring semesters of eighteen weeks each, followed by a summer session consisting of terms of six and three weeks, respectively. Students may enter at the beginning of either semester or at the beginning of either of the summer terms.

The summer session meets the needs of regular students who wish to gain credit toward the bachelor's degree, of teachers in service, and of liberal arts students who wish to secure supplemental credit or to shorten the time for completion of their curricula.

Tests Required at Registration Time and Later

1. A physical examination is required of all students upon entering the college. Appointments for this examination are made during registration.
2. All entering students are required to take the College Aptitude Test. Exceptions may be made for students who register for five units of work or less, for former graduates of this college, and for graduates of approved four-year colleges.
3. The Subject A Test (English Composition) is required of all entering students. English 1A must be taken by all students whose tests indicate that they are not qualified for English 1B, even though they may not intend to enroll in English 1B. No student may enroll for his first semester of attendance unless he has qualified for English 1B or has been enrolled in English 1A. Exceptions may be made for students transferring credit in English from other colleges.
4. Passing the Fundamentals Test in reading, spelling, arithmetic and handwriting, and a Speech Test are prerequisites for admission to upper division courses in teacher training curricula. Students should take these tests at the beginning of the sophomore year in order that they may have sufficient time to make up deficiencies, if any exist, before applying for admission to the upper division of teacher training curricula. Exceptions may be made for former graduates of this or other California State teacher training institutions who have been teachers in service.

Late Registration

A student who registers after the first week of the semester is subject to the limitation of his program. A fee of two dollars must be paid for registration after the regular registration period. After the first week of the semester, the instructor's approval must be secured for each course entered.

Changes in Registration

Changes in program may be made only with the approval of the program dean. Petitions for changes in program may be secured at the Registrar's office.

A statement regarding withdrawals from class is to be found on page 10.

Auditors

Auditors must register in the usual way. They are not subject to the late registration fee providing they register on the first day their class meets.

GENERAL REGULATIONS

Officers for Consultation

Concerning the housing and living arrangements of students, personal problems, part-time employment, etc.—*Women*, The Dean of Women; *Men*, The Dean of Men.

Concerning the scheduling and arrangement for all student social affairs—The Dean of Women.

Concerning admission, program of studies, credits, degree requirements, etc.—The Registrar; The Dean of Liberal Arts; The Dean of Education.

Concerning health and physical condition—The Health Department.

Concerning student-body affairs, student-body policy, the executive officers of the student body—The Dean of Liberal Arts; The Dean of Women; The Dean of Men.

Concerning appointments to teaching positions and other types of full-time employment—The Director of Placement.

Concerning Admission to Upper Division Teacher Training Curriculum, practice teaching, credential requirements, etc.—The Dean of Education.

Concerning use of the buildings—The Dean of Women; The Dean of Men.

Residence

For fee paying purposes, residence is defined as the place where one remains and is not called elsewhere for labor or other special or temporary purpose, to which he returns in seasons of repose. There can be only one residence. The residence of the father during his life, and after his death, the residence of the mother, unless they are legally separated or divorced, is the residence of the minor. Barring separation or divorce, the residence of the husband is the residence of the wife. In case of legal separation or divorce, the residence of the parent with whom the minor makes his home is his residence.

Classification

Regular students are those students who have complied with the requirements of admission and are registered in more than 5 units of work.

Limited students are partial course students who, for adequate reasons, have been permitted to register for 5 units of work or less.

Special students are mature students who have not satisfied all entrance requirements but who are registered for such courses as their ability and preparation qualify them to pursue. Special students may also be limited students. For convenience in administration, students who have completed

0 to 29 units of work are classified as freshmen; those who have completed 30 to 59 units, as sophomores; those who have completed 60 to 89 units, as juniors; and those who have completed 90 or more units, as seniors.

Units of Work and Study-Lists Limits

A unit of credit represents approximately three hours of actual work per week through one semester—one hour of lecture or recitation, together with two hours of preparation; or three hours of field or laboratory work.

Sixteen units, in addition to physical education ($\frac{1}{2}$ unit), constitute normal semester's program for all students. An entering freshman, however, is allowed to enroll for a maximum of 17 units, and all other students for a maximum of 18 units, provided such additional enrollment seems to the adviser necessary or advisable in order to round out the study program.

Ordinarily, only 16 units, in addition to physical education, will be credited toward graduation; except that, after a student's first semester at college, a program of 17 units, in addition to physical education, will be credited provided the student was registered for at least 12 units in preceding semester and attained an average of not less than 1.5 grade points; 18 units will be credited provided the student attained an average of not less than 2.0 grade points. Any course in which a student receives a passing grade may be used in the satisfaction of course requirements even though such course is in excess of the units credited for graduation.

Credit for a program that does not conform to the above regulations may be obtained only through a petition addressed to the Scholarship Committee. No student will be allowed to register for less than 12 units without the approval of the academic dean of his department.

Scholarship, Grades, and Grade Points

The following grades are used in reporting the standing of students at the end of each semester: A, excellent; B, good; C, fair; D, passed; E, conditioned; F, failed; I, incomplete, and W, withdrawn.

Grade points are assigned as follows: Grade A, 3 points per unit; B, 2 points per unit; C, 1 point per unit; D, no points; E, minus 1 point per unit; F, minus 1 point per unit.

The grade E is used to record work which is of low order but which may be made passable. If by the close of the next semester the work has been satisfactorily completed the grade E is changed to a D; otherwise it is changed automatically to an F. The grade I is used to record work which may be of higher order but which is incomplete for some acceptable reason. Ordinarily, to change an I to another grade, the work must be completed within a year.

To qualify for a certificate in any curriculum, a diploma of graduation or a transcript of record with recommendation to another collegiate institution, a student must have earned as many grade points as the number of units he has attempted; that is, he must have attained an average of at least C grade in all work undertaken at the college. If a student's scholarship falls below a C average, the statement of honorable dismissal on his transcript shall be qualified by the phrase "except for scholarship

Transcripts of Record

Students may secure one official transcript of record without fee. Afterwards, applications for transcripts should be accompanied by the one dollar transcript fee. After a student has matriculated in this institution, transcripts of record from other schools will not be returned or copies of them made.

Eligibility for Practice Teaching

A student shall be eligible for practice teaching (Education 116) who has not completed 75 units, been admitted to Upper Division Teacher Training, and whose entire record, and also his record for the preceding semester, does not average C grade.

Probation and Disqualification

A scholarship record below an average of grade D per unit of work undertaken in any single semester disqualifies a student for further attendance at the college.

A student whose scholarship record shows a cumulative deficit of 12 or more grade points for all work undertaken in the college to the close of any semester will be placed on probation.

A student whose study lists have averaged less than 12 units per semester will be placed on probation if his cumulative deficit equals or exceeds the average number of units carried per semester.

A probationary student whose scholarship falls below an average grade of D in any single semester is disqualified for further attendance at the college. Probationary status may be continued until the cumulative grade-point deficit be reduced, in the case of a regular student to an amount less than 12 and, in case of a limited student, to an amount less than the average number of units carried per semester.

A disqualified student may be reinstated after an interval of one semester on reasons satisfactory to the Executive Committee. All applications for reinstatement must be in writing.

Examinations

Final examinations shall be given to individual students before the regular final. Any student who finds it impossible to take a final examination on the date scheduled must make arrangements with the instructor to have an incomplete grade reported and must take the deferred final examination not later than the end of the second semester following that in which the incomplete was given. No exceptions shall be made to this rule without the approval of the dean of the department and the instructor concerned.

Final examinations shall be written in Official Examination Books or other forms which shall be furnished by the college and distributed by the instructor at the beginning of the examination period. No books or papers of any kind shall be brought into the examination room, except by special order of the instructor.

Students shall pay a fee of two dollars at the business office for every special examination given. The instructor shall give such examination

only when the student presents a receipt showing that the fee has been paid.

Withdrawals from Class

A student may not withdraw from class without the permission of the proper study-lists officer on a "change of registration card" which must be filed in the Registrar's office. If a student withdraws from class for acceptable reasons during the first twelve weeks of a semester, a grade of W will be recorded on his permanent record for those classes which he has dropped. If he withdraws from class during the last six weeks of a semester, either an I or an F will be recorded. Students who withdraw from all classes during the course of a semester must petition the Executive Committee at such time as they may seek readmission to the college. A record of the quality of work maintained to the time of withdrawal will be preserved to facilitate committee action.

Extension and Correspondence Courses

Credit for extension and correspondence courses that will be accepted toward the fulfillment of the requirements for the A.B. degree will depend upon the nature of the courses, the quality of the work done, and the student's preparation for work in the field of the course. The college reserves the right to limit credit to only such courses as have been approved, and the total of such acceptable credit to twelve units.

THE BACHELOR OF ARTS DEGREE

General Requirements for the Bachelor of Arts Degree

San Diego State College offers the following types of curricula leading to the A.B. Degree: (1) the curricula leading to the California teaching credentials, and (2) the Liberal Arts curricula. With slight variations in definition, many of the basic requirements are the same.*

A minimum of 124 units of college work, representing a four-year course, is required for the A.B. Degree. Not less than 54 of these units must be completed in the junior and senior years and at least 30 units must be earned at this college. Twenty-four of these residence units must be taken with the rank of senior, at least twelve of which must be taken in the fall or spring semester of the final year before graduation. Certain requirements for the degree may be met by courses taken in high school. No high school course, however, can be used to reduce the amount of college work required for the degree or the junior certificate.

Summary of the Basic Requirements, Common to All Curricula Leading to the A.B. Degree

Physical Education activity	2 units
Hygiene	2 units
English	6 units
Social Sciences	14 units
Natural Sciences	14 units
Psychology 1A	3 units
Political Science 101	2 units

Special Degree Requirements in the Curricula Leading to Teaching Credentials

A statement of the general requirements for the A.B. Degree appears above. An interpretation of this statement which is characteristic of the requirements for the Teacher Training Curricula follows:

English Courses in journalism or in speech arts are not accepted in satisfying this requirement. The following courses or their equivalents are required: English 1A, 1B, and 2 or 3, 4A, 4B, 52A, 52B, 56A, 56B.

Social Sciences A minimum of 14 units, eight of which must be in the lower division, is required. Courses in the following departments may be used in satisfaction of this requirement: Anthropology, economics (except 14A-14B), geography (except 1 and 3), history, political science, social science, sociology. A maximum of two semesters of fourth

* For specific variations and additional degree requirements in Liberal Arts Curricula see page 38.

year high school courses in the fields of history, political science, sociology and economics taken with grades of not lower than C may be used to satisfy three units of the social science requirement.

Natural Sciences A minimum of 14 units in natural science, 12 of which must be in the lower division, is required. The 12 units of lower division credit may be reduced to a minimum of six units if the student presents acceptable grades from high school in laboratory courses in natural science offered exclusively for the third or fourth year student. In general, each year's work in high school science will reduce the requirement by three units. No college credit will be given for such reduction which is merely an exemption of the total requirement. The college courses which may be used in satisfaction of this requirement are: Agriculture 20; Astronomy 1, 5, 11; Biological Science 1, 10A-10B; Botany 2A-2B, 4, 5, 7; Chemistry 1A-1B, 5, 7, 8; Geography 1, 3; Geology 1A, 1B; Physical Science 1, Physics 1A-1B, 1C-1D, 2A-2B, 3A-3B; Zoology 1A-1B.

Political Science 101 Political Science 113 or 152, or History 171A, 171B or 173A-173B will be accepted as substitutes for this requirement.

Education All Teacher Training Curricula leading to the Degree require 18 semester units in education in addition to the general degree requirements previously listed.

Teacher Training Curricula and Teaching Credentials The college offers curricula leading to the A.B. degree with the following teaching credentials:

1. Elementary school credential authorizing the holder to teach any or all subjects in all grades of any elementary school in California.
2. Junior high school credential authorizing the holder to teach any or all subjects in the seventh, eighth, and ninth grades of any elementary or secondary school in California. After September 1, 1938, this credential will be issued only in combination with the elementary school credential or one of the special secondary credentials. — Or with the presecondary in education.
3. Special secondary credential in art authorizing the holder to teach art subjects in any grade of the public schools of California.
4. Special secondary credential in business education authorizing the holder to teach commercial subjects in any grade of the public schools of California.
5. Special secondary credential in music authorizing the holder to teach music in any grade of the public schools of California.
6. Special secondary credential in physical education authorizing the holder to teach physical education in any grade of the public schools of California.

Admission to the Upper Division of the Teacher Training Curriculum Students who have been in regular attendance at the college should make application for admission to the upper division of the teacher training curriculum during the final semester of their sophomore year. Students who have completed three or more semesters of work

1 another college, upon transferring to San Diego State College, should make application as soon as they can meet the preliminary requirements.

The preliminary requirements which must be met before making application are:

1. A satisfactory score in a college aptitude test taken at the college.
(See college calendar for date of test.)
2. Evidence of satisfactory ability in arithmetic, handwriting, reading and spelling indicated by having passed the fundamentals test.
(See college calendar for date of test.)
3. Assurance of correct speech habits and voice control by having satisfactorily completed a course in corrective speech or by having passed a speech test given by the college.
4. Assurance of physical fitness by having passed a prescribed examination given by one of the college physicians.
5. If the student is to be a candidate for one of the special secondary credentials, he must furnish a recommendation from the chairman of that department stating that the student has ability and shows promise of teaching success in his field and that the department looks with favor upon his application.
6. The completion of the first two years of a given curriculum, or its equivalent, with a scholarship grade of C or better.

After the student has submitted evidence of having met the preliminary requirements in his application for admission to the upper division of the teacher training curriculum he will be interviewed by the members of a committee appointed by the faculty for this purpose. In the appraisal of applicants the committee will give careful consideration to the following factors established by the State Board of Education: intelligence, scholarship, professional aptitude, personality and character, speech and language usage, and many-sided interests.

Upper Division Course Requirements At least 40 units in upper division courses must be completed, 30 of which must be earned after all lower division requirements have been satisfied.

Advanced Standing in Teacher Training A maximum of 18 units in courses in education will be credited toward degree requirements in case such work was taken more than five years before entering upon the degree curriculum at this college (date of first work taken after an evaluation of record has been made, for students entering with advanced standing). After an interval of five years subsequent to last attendance, evaluations are subject to revision with respect to deduction of credit in education courses and such new requirements as may have been put into effect.

Students formerly in attendance will not be considered to be working in the degree curriculum until an evaluation and statement of credit has been secured from the registrar's office. All courses taken either at this college or elsewhere must be approved by an official adviser or the Registrar (for those taken elsewhere) in order to be credited toward meeting degree requirements.

Teaching Major and Teaching Minor Requirements For the elementary school credential, two academic teaching minors are required; for the junior high school credential, or for both the elementary and junior high school credentials together, an academic teaching major and an academic teaching minor are required. For the special credentials, the requirement consists of a major in the special subject and an academic teaching minor. An academic teaching major consists of a minimum of twenty-four units in a field other than education, twelve of which must be in the upper division. A C average in scholarship is also required in all upper division courses in the field of an academic teaching major. The major in a special subject varies from twenty-four to forty units as specified in the requirements for the various curricula. An academic teaching minor consists of twelve units in a field other than education, six of which must be in the upper division. Academic teaching majors and minors may be established in the following fields: English, foreign languages, general science, mathematics, and social sciences (economics, geography, history, political science, sociology). Academic teaching minors may also be established in art, music, and physical education.

Candidates for the academic teaching major in the field of English will be expected to show credit in English 1A, 1B with nine units of electives in the lower division; English 130A and 130B and six units of electives in the upper division. Candidates for the academic teaching minor in the field will be expected to show credit in English 1A, 1B and three units elected from 2, 3, 4A, 4B, 52A, 52B in the lower division; three units elected from English 130A or 130B, the remaining three units elected from English 101, 117, 130A, or 130B in the upper division.

Candidates for the academic teaching major in the field of general science must meet the general requirements of fourteen units of natural science in the lower division including Biological Science 10A-10B, unless taken in high school. The remaining units to complete the major must be chosen so as to include a year course in a biological science unless Biological Science 10A-10B is taken in college, a year course in physics and a concentration of twelve units, at least six of which are upper division, in one major subject (botany, chemistry, physics, zoology).

Candidates for an academic teaching major in the field of the social sciences must meet the general requirements of fourteen units of social science in the lower division including Geography 2 and Social Science. The remaining twenty units must be chosen so as to include a year course of six units in history in either the lower or upper division and a concentration of twelve units, at least six of which are upper division, in one major subject (economics, geography, history, political science). The following courses in economics may not be applied to the teaching major in social science: 14A-14B, 18A-18B, 125A-125B, 140, 160A-160B, 161, 162, 163, 164, 165.

Women candidates for an academic teaching minor in the field of physical education will be expected to show credit in Physical Education 36A, 36B, 37 or 38A, 38B, 53, and Hygiene 2 in the lower division; six units elected from Physical Education 102, 157A, 157B, 158, 161, 164, 170, 178A, and 178B in the upper division.

Combinations of Credentials In the case of students seeking more than one teaching credential, the curriculum for each credential must be completed in full, with only such exceptions as are indicated in the requirements.

units. For each credential in addition to one, at least twelve additional units of credit must be earned, this work to be in electives in nonprofessional fields only, after the basic curriculum requirements have been satisfied. If the requirements for the general elementary credential and the general junior high school credential are completed at the same time, an exception will be made to this rule until September 15, 1938.

Preparation for Graduate Work Students who take the A.B. degree with only a special credential and who contemplate doing graduate work for a master's degree in an academic field at another institution of higher learning, will find it advantageous to use their electives to lay a foundation for that work. A student who plans to do graduate work in the field of academic teaching major is advised to so arrange his electives as to complete the liberal arts major to avoid the necessity of making up an undergraduate deficiency.

Applied and Vocational Subjects In the teacher training curriculum, credit required in applied and vocational subjects in any credential pattern completed by the student will be allowed in fulfillment of the A. B. degree. A maximum of six units of credit in the following courses may be allowed to fulfill the requirements of any other credential pattern only after the student has received permission from the Dean of Education: Art 7, 14; Industrial Arts 3A, 22; Journalism 53A-53B, 153A-153B; Library Science 10; Merchandising, all courses; Applied Music, all courses, including A-9B, 109; Secretarial Training, all courses.

Curricula Leading to Teaching Credentials

A.B. Degree With Elementary School Credential

FRESHMAN YEAR

First Semester—

Art 6A, Structure	-----
Biological Science 10A, ¹ Science of Life	-----
English 1A or 1B, ² Freshman English	-----1 or
Geography 1, Elements (Natural Science)	-----
Physical Education 1A or 36A	-----
Hygiene 1 or 2, Personal and Civic	-----
Electives ^{3, 4}	-----4 or

Second Semester—

Biological Science 10B, ¹ Science of Life	-----
English 1B or 2, 3, 4A, 4B, 52A, 52B, 56A, 56B	-----
Geography 2, Regions (Social Science)	-----
Music 1A, Music Reading and Ear-training	-----
Physical Education 1B or 36B or 36C	-----
Electives ^{3, 4}	-----

SOPHOMORE YEAR

First Semester—

English (selected from 2, 3, 4A, 4B, 52A, 52B, 56A, 56B, unless taken in freshman year)	-----
Physical Education 1C and 37, Games and Rhythms for the elementary school	-----

Second Semester—

Physical Education 1D or 38A	-----
------------------------------	-------

Either Semester—

Art 61A, Elementary Crafts	-----
Art 61B, Elementary Crafts	-----
Psychology 1A, General	-----
Social Science 1, Pol., Soc. and Econ. Problems	-----
Electives to meet requirements in Natural Science, Social Sciences, and minors ^{3, 4, 5}	-----18-2

¹ Possible substitutions for the requirement in Biol. Science 10A-1B

1. High school Biology (year course with laboratory work).

2. Botany 2A-2B and Zoology 1A-1B—16 units.

3. High school Botany and Zoology 1A-1B.

4. High school Zoology and Botany 2A-2B.

5. High school Botany and high school Zoology.

6. Biological Science 1 and Physical Science 1—6 units.

² Depending on result of Subject A test.

³ See Summary of Basic Requirements for total requirements in English, Natural Sciences, and Social Sciences.

⁴ Unless minor is English, General Science or Social Sciences.

⁵ If 6 units in minor taken in freshman year, none needed in sophomore year.

JUNIOR YEAR

	Units
First Semester—	
Education 147, Education Practicum—Lower Levels.....	12-13
Psychology 102, Genetic.....	3
Second Semester—	
Education 108, Educational Measurements	3
Education 148, Education Practicum—Upper Levels.....	12-13
	<hr/> 30-32

SENIOR YEAR

First Semester—	
Education 116, Practice Teaching ¹	6 or 7½
Second Semester—	
Education 106, ² Philosophy of Education.....	3
Electives including two minors and political science requirement (for the year).....	21 or 19½
	<hr/> 30

SUMMARY

Art 6A, 61A, 61B.....	6
Education 106, 108, 116, 147, 148.....	36 or 39½
English	6 or 7
Hygiene 1 or 2.....	2
Music 1A	2
Natural Sciences (incl. Biol. Science 10A-10B and Geog. 1).....	14
Physical Education 1A-B-C, 37 or 36A-36B, 37, 38A.....	2
Political Science 101.....	2
Psychology 1A, 102.....	6
*Social Sciences (including Social Science 1 and Geography 2).....	14
Electives, including two academic teaching minors.....	33½ or 30½
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Candidates for the elementary school credential in combination with any other type of credential are required to do not less than 6 units of practice teaching in the elementary school.

Not required if student is meeting requirements for junior high school or special credential also.

* See page 20.

* See page 19.

A. B. degree with Junior High School credential Note: After September 15, 1938, the Junior High School credential will be issued only combination with one of the other teaching credentials.

—Or with the presecondary in education.

FRESHMAN YEAR

First Semester—

	Units
Biological Science 10A, ¹ Science of Life-----	3
English 1A or 1B ² -----	1 or 3
Geography 1, Elements (Natural Science)-----	3
Physical Education 1A or 36A-----	$\frac{1}{2}$
Hygiene 1 or 2, Personal and Civic-----	2
Electives, ³ including major and minor ⁴ -----	6 or 4

Second Semester—

Biological Science 10B ¹ Science of Life-----	3
English 1B or 2, 3, 4A, 4B, 52A, 52B, 56A, 56B-----	3
Geography 2, Regions (Social Science)-----	3
Physical Education 1B or 36B-----	$\frac{1}{2}$
Electives, ³ including major and minor ⁴ -----	7

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SOPHOMORE YEAR

First Semester—

English 2, 3 (selected from 4A, 4B, 52A, 52B, 56A, 56B, unless taken in freshman year)-----	3
Physical Education 1C or 38A-----	$\frac{1}{2}$
Psychology 1A, General-----	3

Second Semester—

Physical Education 1D or 38B-----	$\frac{1}{2}$
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Either Semester—

Social Science 1, Pol., Soc. and Econ. Problems-----	3
Electives, ³ including major and minor ⁵ (for the year)-----	22-25

32

JUNIOR YEAR

First Semester

Education 108, Educational Measurements-----	3
Education 125, ⁶ Elementary School Curriculum-----	3
Political Science 101, American Institutions (or substitute)-----	2
Psychology 102, Genetic-----	3

¹ Possible substitutions for the requirements in Biological Science 10A-10:

1. High school Biology (year course with laboratory work).
2. Botany 2A-2B and Zoology 1A-1B—16 units.
3. High School Botany and Zoology 1A-1B.
4. High School Zoology and Botany 2A-2B.
5. High School Botany and High School Zoology.
6. Biological Science 1 and Physical Science 1—6 units.

² Depending on result of Subject A test.

³ See Summary of Basic Requirements for total requirement in English, Natural Sciences, and Social Sciences.

⁴ Unless major or minor is English, General Science or Social Science.

⁵ If 6 units in minor taken in freshman year, none needed in sophomore year.

⁶ Not required if student is meeting requirements for elementary credential also.

Second Semester—	Units
Education 116, Practice Teaching-----	3
Third Semester—	
Methods, Courses in the Field of Academic Major-----	2
Physical Education 151, Health Education-----	2
Electives, including major and minor (for the year)-----	12
	30

SENIOR YEAR

First Semester—	
Education 116, Practice Teaching-----	3
Second Semester—	
Education 121, Principles of Secondary Education-----	3
Third Semester—	
Education, elective-----	3
Electives, including major and minor ¹ (for the year)-----	21
	30

SUMMARY

Education 108, 116, 121, 125, Methods Courses in the Field of Academic Major, and elective in Education-----	20
English-----	6 or 7
Science 1 or 2-----	2
Natural Sciences (including Biological Science 10A-10B and Geog. 1)-----	14
Physical Education 1A-B-C-D or 36A-36B, 38A-38B; 151-----	4
Political Science 101-----	2
Psychology 1A, 102-----	6
Social Sciences (including Social Science 1 and Geography 2)---	14
Electives, including academic teaching major and minor-----	56 or 55
	124

Combination General Elementary-General Junior High School Credential A combination of the general elementary credential with the general junior high school credential may be secured by completing the requirements for the general elementary credential, substituting Education 121, *Principles of Secondary Education*, for Education 106, *Philosophy of Education*, and completing the following additional requirements:

An academic teaching major.

A methods course in the field of the academic teaching major.

A minimum of three units of practice teaching in a junior high school, the equivalent.

¹ 6 units in minor taken in junior year, none needed in senior year.
See page 20.
See page 19.

A.B. Degree With Special Credential in Art This course leads the A.B. degree and to the Special Secondary Credential in Art which entitles the holder to teach art in senior high, junior high, and elementary schools.

LOWER DIVISION

Aesthetics 50, History and Appreciation of Art (unless Aesthetics 150 is taken in the upper division)-----	
Art 6A-6B, Structure -----	
Art 61A, 61B, Elementary Crafts-----	
Education 19, Art in the Elementary School-----	
English 1A, ¹ 1B, 2, 3 or 4A, 4B, 52A, 52B, 56A, 56B-----	6 or
Hygiene 1 or 2, Personal and Civic-----	
†Natural Sciences -----	12
Physical Education 1A-1B, 1C-1D (men); 36A-36B, 38A-38B (women) -----	
Psychology 1A, General-----	
†Social Sciences, including Social Science 1, Political, Social and Economic Problems -----	8-1
Electives, including additional art for major and courses for academic teaching minor ² -----	10-1

UPPER DIVISION

Education 116, Practice Teaching (4 units in special field)-----	
Education 119, Art in the Junior High School-----	
Education 121, Principles of Secondary Education-----	
Education 125, ³ Elementary School Curriculum-----	
Education elective (suggested: Education 106 or 108 or 130)-----	
Political Science 101, American Institutions (or substitute)-----	
Electives, including additional art and academic teaching minor-----	4

SUMMARY

Aesthetics 50 or 150-----	
Art major -----	4
Education -----	1
English -----	6 or
Hygiene 1 or 2-----	
*Natural Sciences-----	1
Physical Education -----	
Political Science 101, American Institutions-----	
Psychology 1A -----	
**Social Sciences (including Social Science 1)-----	1
Electives, including academic teaching minor-----	19-2

¹ Depending on result of Subject A test.
² Unless minor is English, general science, or social science.
³ Not required if student is meeting requirements for elementary credential also.
⁴ Maximum credit allowable in art.
† See Summary of Basic Requirements.
* See page 20.
** See page 19.

1. Degree With Special Credential in Business Education This course leads to the A.B. degree and to the Special Secondary Credential in Business Education, which entitles the holder to teach business subjects in senior high and junior high schools.

In addition to the following academic requirements, satisfactory evidence of one-half year, or 1000 hours of approved experience in the field named on the credential must be submitted. For the credentials in the General Business Subfield twelve semester hours of work above the requirements for a bachelor's degree may be offered in lieu of the six months of full-time experience. At least six semester hours of the twelve must be in business economics.

Accounting and Secretarial Subfields

LOWER DIVISION

	Units
Economics 1A-1B, Principles-----	6
Economics 14A-14B, Accounting-----	6
English 1A, Freshman English, or elective ¹ -----	1
Geography 1, Elements (Natural Science)-----	3
Geography 2, Regions-----	3
Mathematics 2, Mathematics of Investment-----	3
Natural Sciences-----	11
Physical Education 1A-1B, 1C-1D (men), or 36A-36B, 38A-38B (women)-----	2
Secretarial Training A, Business Mathematics-----	1
Secretarial Training 1A-1B, Typewriting-----	6
Secretarial Training 5A-5B, Stenography-----	10
Secretarial Training 6A, Advanced Stenography-----	3
Secretarial Training 10A, Business Correspondence-----	3
Social Science 1, Pol., Soc. and Econ. Problems-----	3
Speech Arts 1A, Fundamentals of Public Speaking-----	3
	<hr/> 64

¹ Pending on result of Subject A test.
See page 20.

UPPER DIVISION

Economics 11, Economic History of the United States	-----
Economics 18A-18B, Commercial Law	-----
Economics 100, Modern Economic Thought, or a course in Consumer Economics	-----
Economics 140, Statistical Methods	-----
Economics 160A-160B, Advanced Accounting	-----
Economics 161, Cost Accounting	-----
Economics 163, Machine Accounting	-----
Education 21, Penmanship Methods	-----
Education 116, Practice Teaching	-----
Education 121, Principles of Secondary Education	-----
Education 130, Educational Psychology	-----
Education 160, Commercial Education	-----
Education 163, Stenography	-----
Education 164, Bookkeeping	-----
Education 165, Typewriting	-----
Geography 141, Economic Geography, or a course in Foreign Trade	-----
Political Science 101, American Institutions (or substitute)	-----
Psychology 1A, General	-----
Secretarial Training 3A, Office Methods and Appliances	-----

If the Secretarial subfield only is elected, Mathematics 2 and Education 164 and all upper division courses in accounting may be omitted, but units in upper division courses in commerce must be included.

If the accounting subfield is elected, Secretarial Training 5A-5B and Education 163, 165 may be omitted.

General Business Subfield

LOWER DIVISION

	Units
Economics 1A-1B, Principles -----	6
Economics 11, Economic History of the United States -----	3
Economics 14A-14B, Accounting -----	6
Economics 18A-18B, Commercial Law -----	6
English 1A, Freshman English, or elective ¹ -----	1
Geography 1, Elements (Natural Science) -----	3
Geography 2, Regions -----	3
Mathematics 2, Mathematics of Investment -----	3
Merchandising 25A, Salesmanship -----	2
Merchandising 25B, Advertising -----	2
Natural Sciences -----	11
Physical Education 1A-1B, 1C-1D (men), or 36A-36B, 38A-38B (women) -----	2
Secretarial Training A, Business Mathematics -----	1
Secretarial Training 1A-1B, Typewriting -----	6
Secretarial Training 10A, Business Correspondence -----	3
Social Science 1, Pol., Soc. and Econ. Problems -----	3
Speech Arts 1A, Fundamentals of Public Speaking -----	3
	64

UPPER DIVISION

Economics 100, Modern Economic Thought, or a course in Consumer Economics -----	3
Economics 135, Money and Banking -----	3
Economics 140, Statistical Methods -----	3
Economics 163, Machine Accounting -----	3
Education 21, Penmanship Methods -----	2
Education 116, Practice Teaching -----	6
Education 121, Principles of Secondary Education -----	3
Education 130, Educational Psychology -----	3
Education 160, Commercial Education -----	2
Education 161, Junior Business Training -----	2
Education 165, Typewriting -----	2
Geography 141, Economic Geography, or a course in Foreign Trade -----	3
Political Science 101, American Institutions (or substitute) -----	2
Psychology 1A, General -----	3
Electives (including a minimum of 5 units in the upper division, 3 units of which must be in Commerce) -----	20
	60

Depending on result of Subject A test.
See page 20.

A.B. Degree With Special Credential in Music This course leads the A.B. degree with a Special Secondary Credential in Music which entitles the holder to teach music in senior high, junior high, and elementary schools.

LOWER DIVISION

	Units
Aesthetics 1A-1B, Survey of Music-----	4
Education 17, ¹ Music in the Elementary School (sophomore year)---	2
English 1A, ² 1B, 2, or 3, 4A, 4B, 52A, 52B, 56A, 56B -----	6 or 7
Hygiene 1 or 2, Personal and Civic-----	2
Natural Sciences ³ -----	12-14
Physical Education 1A-1B, 1C-1D (men); 36A-36B, 38A-38B ¹ (women) -----	2
Psychology 1A, General (sophomore year)-----	3
Social Sciences, ³ including Social Science 1, Political, Social and Economic Problems -----	8-14
Music for major (see below) and electives, including course for an academic teaching minor ⁴ -----	16 or 25

UPPER DIVISION

Aesthetics 102A-102B, History of Music-----	2
Education 116, Practice Teaching (at least 4 units in Music)-----	4
Education 121, Principles of Secondary Education-----	2
Education 127, Music in the Secondary School-----	2
Education 145, Org. and Adm. of Music Education-----	2
Political Science 101, American Institutions (or substitute)-----	2
Music for major (see below) and electives, including courses for an academic teaching minor ⁴ -----	40

MUSIC

Freshman year:

1B, Music Reading and Ear Training-----

Sophomore year:

1C-1D, Music Reading and Ear Training-----

4A-4B, Elementary Harmony-----

Junior and senior years:

105A-105B, Advanced Harmony -----

106A-106B, Applied Harmony-----

¹ Unless also a candidate for a general elementary school credential.

² Depending on result of Subject A Test.

³ See page 20.

⁴ See Major and Minor requirements, page 22.

APPLIED MUSIC¹

	Units
, 116, A, B, C, D, Orchestral Instruments ² (including 19 or 119, C and D, Instrumental Music, Advanced)-----	6
, 117, A, B, C, D, Voice ² (including 20A, 20B, Vocal Music)-----	6
, 118, A. B. C. D, Piano ² -----	4
	—
	40

SUMMARY

Aesthetics -----	6
Education -----	18
English -----	6 or 7
Hygiene 1 or 2 -----	2
Music major -----	40 ³
Natural Sciences -----	14
Physical Education -----	2
Political Science 101, American Institutions -----	2
Psychology 1A -----	3
Social Sciences -----	14
Electives, including an academic teaching minor -----	16 or 17
	—
	124

See page 97.

Unless exempted by examination.

Maximum credit allowable in music for degree.

A.B. Degree With Special Credential in Physical Education This course leads to the A.B. degree and to the Special Secondary Credential in Physical Education which entitles the holder to teach physical education in senior high, junior high, and elementary schools.

MEN

LOWER DIVISION

Biol. Science 10A-10B, Science of Life (unless taken as a year course in high school with at least a grade of B) -----	Un	6
or		
Zoology 1A, General -----		4
English 1A, ¹ 1B, 2 or 3, 4A, 4B, 52A, 52B, 56A, 56B -----		6 or 7
Hygiene 1, Personal and Civic -----		2
†Natural Sciences -----		5 or 7
Physical Education:		
1A-1B, 1C-1D -----		2
6A, Tennis -----		1
30, Emergencies -----		1
62A, 62B, Gymnastic Activities -----		4
66, Playing Rules of Modern Games -----		1
72, Principles -----		2
Sports and Athletics ² -----		2
Psychology 1A, General (sophomore year) -----		3
Red Cross Swimming Test -----		1
†Social Sciences, including Social Science 1, Political, Social and Economic Problems -----		14
Speech Arts 1A, Fundamentals of Public Speaking -----		2
Zoology 20, Anatomy and Physiology -----		2
Electives, including courses to meet minor requirements ³ -----		7-8
		64

UPPER DIVISION

Education 116, Practice Teaching -----		6
Education 121, Principles of Secondary Education -----		3
Education 125, Elementary School Curriculum -----		3
Education, elective -----		
Physical Education:		
151, Health Education -----		2
154, Organ. and Admin. of Physical Education -----		2
155, Applied Anatomy -----		2
156A-156B, Sports Methods -----		2
166, Technique of Officiating -----		2
169, Technique of Teaching Activities -----		2
171, Community Recreation -----		2
180, Theory of Coaching Football -----		2
Sports and Athletics ² -----		2

¹ Depending on result of Subject A test.

² Men majoring in Physical Education must actively participate in the sports each year.

³ Unless minor is English, general science, or social science.

† See Summary of Basic Requirements.

MEN—Continued

UPPER DIVISION—Continued

	Units
Political Science 101, American Institutions (or substitute) -----	2
Psychology 102, Genetic (first semester, junior year) -----	3
Biology 114A, Genetics -----	2
Electives -----	14
	<hr/> 60

SUMMARY

Education -----	18
English -----	6 or 7
Hygiene 1 -----	2
Speech Arts 1A -----	3
Natural Sciences (including Biol. Science 10A-10B or substitute and Zoology 20) -----	14
Physical Education major -----	35
Political Science 101, American Institutions -----	2
Psychology -----	6
Social Sciences (including Social Science 1) -----	14
Biology 114A -----	2
Electives, including academic teaching minor -----	21-22
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See page 20.

See page 19.

A.B. Degree With Special Credential in Physical Education This course leads to the A.B. degree and to the Special Secondary Credential in Physical Education which entitles the holder to teach physical education in senior high, junior high, and elementary schools.

WOMEN

LOWER DIVISION

Aesthetics 1A, Survey of Music	-----	Ur
Biol. Science 10A-10B, Science of Life (unless taken in high school)	-----	
or		
Zoology 1A, General	-----	
English 1A, ¹ 1B, 2, 3, or 4A, 4B, 52A, 52B, 56A, 56B	-----6 or	
Hygiene 2, Personal and Civic	-----	
*Natural Sciences	-----	5-
Physical Education:		
36A, Fundamental Skills	-----	
36B, Folk Dancing	-----	
36C, Rhythmic Skills	-----	
37, Games and Rhythms for the Elementary School	-----	
38B, Sports and Dancing	-----	
53, Physical Education in the Elementary School	-----	
55A or 55B, Swimming—Beginning or Intermediate	-----	
55C, Life Saving	-----	
56, Tennis	-----	
57, Golf	-----	
59, Archery	-----	
Psychology 1A, General	-----	
Sociology 50, General	-----	
or		
Anthropology 54, Social	-----	
*Social Sciences, including Soc. Science 1, Political, Social and Economic Problems	-----	5-1
Speech Arts	-----	
Zoology 20	-----	
Electives, including academic teaching minor ²	-----	11½-1

UPPER DIVISION

Education 108, Educational Measurements	-----	
Education 116, Practice Teaching	-----	
Education 121, Principles of Secondary Education	-----	
Education 125, Elementary School Curriculum	-----	
Education 106, Philosophy	-----	
or		
Education 140, Educational Statistics	-----	
or		
Education 142, Educational Sociology	-----	
Physical Education:		
102, Emergency and Safety Programs	-----	
151, Health Education	-----	

¹ Depending on result of Subject A test.

² Unless minor subject is English, general science, or social science.

* See Summary of Basic Requirements.

WOMEN—Continued

UPPER DIVISION—Continued

Physical Education—Continued	Units
153, Administration of Secondary Physical Education.....	2
155, Applied Anatomy	2
157A-157B, Sports Methods.....	4
158, Stunts and Tumbling.....	$\frac{1}{2}$
160 Principles of Teaching Gymnastics.....	2
161 Folk Dancing	2
164A-164B, Advanced Dancing	4
168, Physiology of Exercise	2
169, Technique of Teaching Activities.....	3
170, Recreational Leadership	2
173, Principles of Physical Education.....	2
177, Individual Program Adaptations	2
185, Techniques of Individual Sports.....	1
Political Science 101, American Institutions (or substitute).....	2
Psychology 102, Genetic (first semester, junior year).....	3
Upper Division Zoology	3
Additional Course in Upper Division Zoology, or other subject for minor ¹	3
	<hr/> 60 $\frac{1}{2}$

SUMMARY

Aesthetics	2
Education	18
English	6 or 7
Hygiene	2
Natural Sciences (including Biological Science 10A-10B or substitute, and Zoology 20).....	14
Physical Education major	38 $\frac{1}{2}$
Political Science 101, American Institutions.....	2
Psychology	6
Social Sciences (including Social Science 1 and Sociology 50 or Anthropology 54)	14
Speech Arts	3
Zoology (upper division)	3-6
Electives, including academic teaching minor unless Zoology is chosen	11 $\frac{1}{2}$ -15 $\frac{1}{2}$
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If another subject is chosen the program must be arranged to include a total of 6 units of upper division work in that subject.
 See page 20.
 See page 19.

Diploma of Graduation A diploma of graduation carrying with it a list of the credentials the college is authorized to grant, or any combination of them, may be granted to the holder of a bachelor's degree from an accredited college, upon the completion of a minimum of twenty-four units. Ordinarily at least one semester of residence during the academic year is required subsequent to securing the degree; the remainder of the work may be in summer session or, in the case of students who had attended the college prior to attaining the degree elsewhere, in credit earned as an upper division student. The candidate for a diploma must meet the equivalent of all of the requirements listed in the curriculum for the A. B. degree with the credential or credentials sought.

Administration and Supervision Credentials Candidates desiring to qualify for administration and supervision credentials will meet the credential requirements as outlined in State Department of Education Bulletin No. 12, Regulations Governing Granting of Credentials. Certificates for Public School Service in California. Further information will be furnished by the college upon request by the applicant.

Special Degree Requirements for the Liberal Arts Curriculum

The liberal arts curricula lead to the bachelor of arts degree with major in art, chemistry, commerce, economics, English, geography, history, mathematics, music, physical science, physics, Romance languages, zoology and qualify for graduate work in these fields in recognized American colleges and universities. Completion of the requirements for these curricula also enables the graduate to satisfy undergraduate requirements for the general secondary credential which, with graduate work, will enable the holder to teach in a senior high school or junior college.

The junior certificate will be granted on the completion of 64 units and satisfaction of all lower division requirements.

LOWER DIVISION

Subject Matter Requirements in the Lower Division

Physical Education	2 u
Hygiene 1 or 2	2 u
English	6 u
Psychology	3 u
Foreign Language	15 u
Mathematics A and B or high school algebra and geometry	0-4 u
Social Sciences	14 u
Natural Sciences	14 u
Year-course in foreign language or mathematics, or philosophy (in addition to the foregoing minimum requirements in foreign language and mathematics)	6 u

Lower division subjects for the minors, unless included in one of the above requirements. See page 40. 12 u

Lower division subjects required for the major. See page 40.

Electives to make total of 64 units.

Explanation of Lower Division Requirements

English This requirement may be satisfied either in the freshman year or in the sophomore year. To be chosen from the following courses: English 1B, 2, 3, 4A, 4B, 52A, 52B, 56A, 56B.

Psychology Psychology 1A.

Foreign Languages At least 15 units in not more than two languages are required in the lower division, except that only 10 units in a modern language are required in the commerce major. Each year of high school work in a foreign language will be counted in satisfaction of 3 units of the requirement. A minimum of two high school year-courses is acceptable in any language except Latin, in which a year-course is permissible.

Social Sciences Fourteen units from two or more departments are required as follows:

- (a) Social Science 1.
- (b) Additional lower division courses to meet the social science requirement must be chosen from the following list and must include one of the year courses marked with an asterisk: Anthropology 50A-50B,* 54, 55; Economics 1A-1B,* 11, 18A-18B; Geography 2, 12; History 4A-4B,* 8A-8B;* Political Science 1A-1B;* Social Science 3, Sociology 50.
- (c) A maximum of two semesters of fourth-year high school courses in the fields of history, political science, sociology, and economics taken with grades not lower than C may be used to satisfy three units of the social science requirement. A maximum of two units of the social science requirement may be chosen from upper division courses if high school senior courses have been used to satisfy the requirement, otherwise a maximum of five units may be counted.

Natural Sciences Fourteen units are required as follows:

- (a) Biological Science 1 or a year course in high school or college biology, botany, physiology or zoology.
- (b) Physical Science 1 or a year course in high school or college chemistry or physics.
- (c) Additional lower division courses to meet the natural science requirement must come from the following list and must include one of the laboratory courses marked with an asterisk. *High school courses:* a maximum of two years, 6 units, of third and fourth year courses in botany, chemistry,* physics,* physiology, zoology and advanced biology may be used to satisfy the natural science requirement. *College courses:* Astronomy 1, 9, 11; Biological Science 1, 10A-10B;* Botany 2A,* 2B,* 4; Chemistry 1A,* 1B,* 5,* 7-8*; Geography 1 or 3 (only one course may be counted toward requirement); Geology 1A, 1B,* 1C; Physical Science 1; Physics 2A-2B; 3A-3B,* 1A-1B,* 1C-1D,* Zoology 1A,* 1B.*
- (d) A maximum of 2 units of this requirement may be chosen from upper division courses.

Mathematics High school elementary algebra or Mathematics A and high school plane geometry or Mathematics B.

Additional Year Course In addition to the foregoing minimum requirements in foreign language and mathematics, 6 units must be chosen from one of the following groups:

Modern foreign language: Any two consecutive college courses, or two consecutive high school year courses.

Latin: Two years of high school courses in Latin.

Mathematics: 1A and 1B; 3A-3B; C and 1A; C and 3A. Student with the Commerce major may take Mathematics D and G, or equivalents, and Economics 2.

Philosophy: 5A-5B.

Limited Electives Among both elective and required subjects, a total of not more than 12 units of the applied and vocational courses listed below will be counted toward junior standing or the A.B. degree, in both the lower and upper division combined: Agriculture 20; Art 7, 14. Merchandising, all courses; all courses in education, except those listed as available for credit toward a minor (see page 46); Industrial Arts 3A, 22; Journalism 53A-53B, 153A-153B; Library Science 1. All courses in Applied Music including Music 9A-9B, 109; Physical Education, all courses except 1A-1B, 1C-1D, 30, 36A, 36B, 36C, 38A, 38, 102, 161, 164A-164B, 170; Secretarial Training, all courses.

Minors A minimum of 12 units in each of two minor subjects is required. At least 6 units in each minor shall be in upper division courses completed in the junior and senior years. The entire 12-unit requirement for a minor may be met with upper division courses provided these courses have no lower division prerequisites. The prerequisites for upper division courses in various departments may be found in the course descriptions on pages 58-108. Minors are available in the following subjects: anthropology, art, botany, chemistry, economics, education, English, foreign languages, geography, geology, history, mathematics, music, philosophy, physics, political science, psychology, zoology. Information concerning a minor in education is to be found on page 46.

Major The specific requirements of lower division subjects for the degree in each major field are listed in the paragraphs following. The student is advised to choose his major as early in his college course as practical so that he may be able to plan his work according to the major requirements. Failure to meet the lower division requirements of the major department before the junior year may make it impossible to satisfy upper division requirements within the normal period of two years.

Art Aesthetics 5, 50; fourteen units carefully chosen from lower division art courses to meet the stated prerequisites for upper division work. This shall include Art A-B, 6A-6B, or the accepted equivalents, and six elective units in art.

Chemistry Chemistry 1A-1B with an average grade of C or better; Chemistry 7-8, Physics 2A-2B and 3A-3B or their equivalent, Mathematics 3A-3B or the equivalent, and a reading knowledge of German. Students planning to do graduate work in chemistry or to transfer to another college, and there work for a degree with a major in chemistry, are advised to take Physics 1A-1B-1C-1D and Mathematics 3A-3B-4A in place of the courses listed above.

Commerce Economics 1A-1B, 11, 14A-14B (6 units), 18A-18B; English 2 or 3; Geography 1-2; Mathematics D and G, or equivalents, and Economics 2; History 4A-4B or 8A-8B or Political Science 1A-1B.

Economics Economics 1A-1B and at least one of the following: Political Science 1A-1B; History 4A-4B; History 8A-8B; Psychology 1A and 1B 4A or 4B; Geography 1 and 2; Anthropology 50A-50B. Recommended: Biology 50; Economics 14A-14B, 18A-18B.

English English 1A-B, 2 or 3 and six units from 52A, 52B, 56A, 56B. Recommended: A reading knowledge of German or French.

Foreign Languages French: French A-B-C-D; either German A-B or Spanish A-B; History 4A-4B. Spanish: Spanish A-B-C-D; French A-B; History 4A-4B.

Geography Geography 1, 2, 3 and Geology 1A-1B. Recommended: A reading knowledge of French or German.

History History 4A-4B, or 8A-8B, and either Political Science 1A-1B, Economics 1A-1B. No student shall enroll in more than one lower division history course during a semester. Students who wish to major in history and who have had less than two years of European history in high school must take History 4A-4B.

Mathematics Mathematics 3A-3B, 8, 4A-4B with an average grade of C or better; Physics 1A-1B or 2A-2B. Two or more of the following are recommended: Astronomy 1, Economics 1A-1B, 2, French A-B, German A-B, Industrial Arts 21, Surveying 1A.

Music Music 1A-1B, 4A-4B; and two units of electives in music; Aesthetics 1A-1B. The electives in music in both lower and upper division must include at least 6 units in Applied Music (study of voice, or an instrument), of which at least 3 units must be in piano. See page 97 for regulations regarding Applied Music.

Physical Science Fulfillment of the departmental requirements for upper division work in at least two of the following sciences: Chemistry, geology, physics. Recommended: A reading knowledge of French and German.

Physics Physics 1A-1B-1C-1D, Mathematics 3A-3B, 4A-4B, and Chemistry 1A-1B, or their equivalents. Recommended: A reading knowledge of French and German.

Zoology Zoology 1A, 1B, and high school chemistry or Chemistry 1A-1B. Recommended: French, German, Botany 2A, 2B, 4, and 7.

UPPER DIVISION

Subject Matter Requirements

Political Science 101	2 un
First minor (minimum in upper division courses)	6 un
Second minor (minimum in upper division courses)	6 un
Major	24 un

Electives to make a minimum total of 40 units in upper division courses and a grand total of 124 units for the degree. At least 30 units of upper division courses must be earned after all lower division requirements have been satisfied.

Explanation of Requirements

Political Science 101 Political Science 113 or 152 or History 171, 171B or 173A-173B will be accepted as substitutes for this requirement.

Minors See explanation regarding minor subjects on page 40.

Majors The specific requirements in each major field are listed in the paragraphs following.

Electives See restrictions concerning the choice of applied and vocational courses, as explained on page 40.

Major Requirements in the Various Fields

Art Twenty-four upper division units. These shall include Art 115, 115A-115B, 152A, 195, and twelve upper division elective units in Art and Aesthetics 150.

It is recommended that students in meeting degree requirements and choosing free electives, select from the following courses: Anthropology 151A-151B; English 4A-4B, 106A-106B, 107A-107B, 117; French and History 4A-4B, 111A-111B.

Chemistry A minimum of twenty-four upper division units in chemistry including Chemistry 105A, 110A-110B and 111A-111B. The choice of related minor and the organization of the course of a major student must follow a definite plan approved by the department.

Commerce Economics 121, 140, 199 and 16 units additional chosen from one of the following groups:

A. Accounting: Econ. 160A-160B, 161, 163, and 4 units in electives in economics.

B. Banking and Finance: Econ. 133, 134, 135, and 7 units in electives in economics.

Geog. 141 may be used in the electives under A and B.

Economics Required: Economics 100, 102, 140 and 199, with 6 units selected from the following: Economics 123, 131, 133, 135, and 171. Electives, seven upper division units in economics. Economic geography may be substituted for three elective units in economics.

English Twenty-four units in upper division English to be selected and arranged under supervision of the department. Not more than four units may be in composition. A reading knowledge of German or French.

Foreign Languages French: Twenty-four units of upper division work, which at least eighteen must be in French, and of which a maximum six may be in related subjects, arranged in consultation with the chairman of the department. At least a C average in upper division major courses. Spanish: Twenty-four units of upper division work, of which at least eighteen must be in Spanish, and of which a maximum of six may be in related subjects, arranged in consultation with the chairman of the department. At least a C average in upper division major courses.

Geography Twenty-four units of upper division work in geography or 3 units in geography and six units in related subjects arranged in consultation with the chairman of the department.

History Twenty-four units in upper division courses in history to be arranged in consultation with the chairman of the department. The student must, in his senior year, enroll in History 199.

Mathematics Twenty-four units, including at least eighteen in upper division mathematics, the others being selected from Chemistry 111A-111B, 114, Economics 140, Education 112, Physics 105A-105B, 112 and other approved courses. The major should be arranged in consultation with the chairman of the department and completed with a grade of C or better.

Music Music 105A-105B, 106A-106B, and 10 units of upper division elective courses in Music: and 2 units of upper division work in an allied subject. (See statement concerning Applied Music under lower division requirements.)

Physical Science Twenty-four units of upper division work in two or more of the physical sciences, chemistry, geology, and physics, with a minimum of six units in each of two of these sciences.

Physics Twenty-four units of upper division work in physics including physics 105A-105B and 107A-107B. Six of the twenty-four units may be elected in related subjects on consultation with the chairman of the department.

Zoology (1) At least a C average in upper division major courses. (2) Twenty-four units of upper division courses in zoology or 18 in the major subject and six in related courses in botany, organic chemistry, physics, physiology and bacteriology.

PREPROFESSIONAL CURRICULA

As shown below, the liberal arts curricula can be adapted to correspond to the typical courses of study preliminary to the professional courses training for law, medicine, dentistry, nursing, optometry, pharmacy, social service, teaching, journalism, agriculture, and engineering. (For a complete statement of the requirements for the junior certificate and the degree in these curricula, see pages 38-43.

Prelegal Curricula

(Two-Year, Three-Year and Four-Year Curricula)

- (a) The entrance requirements of law colleges range from two years, three and four years of prelegal work. The lower division requirements of the liberal arts curricula should be met in full whether the curriculum extends over a period of two, three or four years.
- (b) The following lower division electives meet the recommendations of standard American law colleges for a broad and liberal education in those fields of human knowledge commonly involved in human affairs and those which have cultural and disciplinary values: History 4A-4B, 6 units; Economics 1A-1B, 6 units; Economics 14A-14B, 6 units; Sociology 50, 3 units; Political Science 1A-1B, 6 units; Speech Arts 1B, 3 units; English 52A-62B, 6 units; Psychology 1A, 3 units; Psychology 4A, 2 units; Philosophy 5A-5B, 6 units. Liberal arts subjects similar to those offered in law colleges should ordinarily be omitted from the prelegal curricula.
- (c) The three-year prelegal curriculum requires the completion of 120 units of work. Some of the introductory courses should be continued in the upper division if the student is to acquire mastery and confidence in any field. The following are listed as examples of upper division courses that meet the needs of general study in the three-year or the four-year curriculum. History 111A-111B, or 121A-121B, 6 units; History 151A-151B, 6 units; History 171A-171B, 6 units; Economics 102, 3 units; Economics 121, 3 units; Economics 133, 3 units; Economics 171, 3 units; Political Science 111, 3 units; Political Science 113, 3 units; Speech Arts 101B, or 1B, 3 units; Philosophy 120, 3 units.
- (d) The four-year curriculum requires the completion of 124 units of work. A student who is pursuing a four-year prelegal curriculum must major in a specific field in his junior and senior years and must meet all upper division requirements for the A.B. degree in the liberal arts curricula.

Premedical Curricula

(Two-Year, Three-Year and Four-Year Curricula)

-) The entrance requirements of medical colleges range from two to three and four years of premedical work. The lower division requirements of the liberal arts curricula should be met in full whether the curriculum extends over a period of two, three or four years.
-) The program of elective and required subjects in the lower division should include the following subjects: Zoology 1A-1B, 8 units; Chemistry 1A-1B, 10 units; English 1B-2 or 3, 6 units; French or German, 9 units (this requirement may be satisfied in the high school); Zoology 100, 4 units (this upper division subject should be taken in the sophomore year only when necessary to satisfy medical colleges requiring only two years of premedical work).
-) The three-year premedical curriculum requires the completion of 93 units of work. The program in the upper division of either the three-year or the four-year curriculum should include the following subjects: Physics 2A-2B, 6 units; Physics 3A-3B, 2 units (the physics courses may be taken in the lower division); Chemistry 7-8, 6 units; Chemistry 105, 3 units; Zoology 100, 4 units.
-) The four-year curriculum requires the completion of 124 units of work. A student who is pursuing a four-year premedical curriculum should major in chemistry or zoology in his junior and senior years and must meet all upper division requirements for the A.B. degree in the liberal arts curricula.

Predental Curricula

(One-Year Curriculum)

The following subjects should be taken to qualify for entrance to dental colleges requiring only one year of predental work. The one-year curriculum requires the completion of 31 units of work. English 1B-2 or 3, 6 units; Chemistry 1A-1B, 10 units; Biological Science 10A-10B, 6 units; Zoology 1A-1B, 8 units; Physics 2A-2B, 6 units; Physical Education 1B or 36A-36B, 1 unit; Electives to make a total of 30 units of work.

(Two-Year Curriculum)

-) The lower division requirements of the liberal arts curricula should be met in full to satisfy dental colleges requiring two years of predental work.
-) The program of elective and required subjects in the lower division should include Chemistry 1A-1B, 10 units; Chemistry 7-8, 6 units; Physics 2A-2B, 6 units; Biological Science 10A-10B, 6 units or Zoology 1A-1B, 8 units; and English 1B-2 or 3, 6 units.

Prenursing Curriculum

(Two-Year Curriculum)

-) The lower division requirements of the liberal arts curricula should be met in full.

- (b) The program of elective and required subjects in the lower division should include Chemistry 1A-1B, 10 units; Economics 1A-1B, 6 units; Psychology 1A-1B, 6 units; Zoology 20 (Anatomy and Physiology) 3 units; Bacteriology 1 (General Bacteriology and Microbiology), 3 units (Summer Session). (It is planned to increase the unit-value of Zoology 20 as soon as possible to meet completely the California state requirements for a junior certificate in prenursing.)

Preoptometry Curriculum

(Two-Year Curriculum)

- (a) The lower division requirements of the liberal arts curricula should be met in full.
- (b) The program of elective and required subjects in the lower division should include Chemistry 1A-1B, 10 units; English 1B-2 or 3, 6 units; Mathematics 3A, or equivalent, 4 units; Physics 2A-2B, 6 units; Physics 3A-3B, 2 units; Psychology 1A, 3 units; Zoology 20, 3 units.

Prepharmacy Curriculum

(Two-Year Curriculum)

- (a) The lower division requirements of the liberal arts curricula should be met in full.
- (b) The program of elective and required subjects in the lower division should include Chemistry 1A-1B, 10 units; Botany 2A-2B, 8 units; German A-B, 10 units; Mathematics D, 1 unit, or equivalent; Mathematics C, 2 units, or equivalent; Chemistry 8-9, 6 units; Chemistry 105A-105B, 6 units; Chemistry 7-8, 6 units; Physics 2A-2B, 6 units; Physics 3A-3B, 2 units.

Presecondary Curriculum

(Four-Year Curriculum)

Completion of the requirements of this curriculum enables the graduate to satisfy the undergraduate requirements for the general secondary teaching credential, which, with graduate work, will enable the holder to teach in a senior high school or junior college.

- (a) The lower division requirements of the liberal arts curricula should be met in full.
- (b) This curriculum requires the completion of 124 units of work. In arranging his program to meet the upper division requirements for the A.B. degree in the liberal arts curricula, the student should include a major in a subject or field of subjects usually taught in high school and a minor in the field of education chosen from the following courses: Ed. 121,* Principles of Secondary Education; Ed. 106, Philosophy of Education; Ed. 107,* History of Education; Ed. 137, Comparative Education; Ed. 130,* Educational Psychology; Ed. 140, Elementary Educational Statistics; Ed. 142, Educational Sociology; Psychology 102,* Genetic. In order to conform to the usual university requirements, this minor should include the courses marked with an asterisk.

Curricula Preliminary to Social Service

(Two-Year and Four-Year Curricula)

The lower division requirements of the liberal arts curricula should be met in full whether the curriculum extends over a period of two years or four years.

The program of elective and required subjects in the lower division should include Social Science 1, 3 units; Sociology 50, 3 units; Economics 1A-1B, 6 units; Speech Arts 1A, 3 units; Speech Arts 1B, 3 units; Biological Science 10A-10B, or Zoology 1A, 6 or 4 units; Psychology 1A, 3 units; Psychology 4A, 2 units; Anthropology 54, 3 units; Mathematics D, or equivalent, 1 unit; Mathematics C, or equivalent, 2 units.

The four-year curriculum requires the completion of 124 units of work. A student who is pursuing a four-year curriculum preliminary to social service must major in a specific field in his junior and senior years and must meet all upper division requirements for the A.B. degree in the liberal arts curricula.

The program of elective and required subjects in the upper division should include as many of the following subjects as possible: Economics 134, 3 units; Economics 102, 3 units; Economics 140, or Education 140, 3 units; Education 106, 3 units; Education 107, 3 units; Education 130, 3 units; History 163, 3 units; History 171A-171B, or 173A-173B, 6 units; Physical Education 30, or 102, 1 unit; Physical Education 151, 2 units; Physical Education 171, or 170, 2 units; Psychology 102, 3 units; Psychology 118, 2 units; Psychology 145, 3 units; Political Science 152, 3 units.

Courses in social work offered by the college, summer session, or extension division should be chosen upon the recommendation of the faculty adviser for the social service curricula.

Curricula Preliminary to Journalism

Broad, cultural education, and specific information and understanding of the fields with which the journalist is largely concerned, are essential to effective training for journalism.

(Two-Year and Four-Year Curricula)

The two-year and four-year curricula demand the completion of the lower division requirements of the liberal arts curricula in full.

The program of elective and required subjects in the lower division should include the following subjects: History 4A-4B, or 8A-8B, 6 units; Economics 1A-1B, 6 units; Political Science 1A-1B, 6 units; Psychology 1A, 3 units; Psychology 4A, 2 units; English 1B-2 or 3, 6 units; French or German, 9 units (this requirement may be satisfied in the high school); Journalism 51A-51B, 6 units; Journalism 53A-53B, 2-6 units.

A student who desires to build a broad foundation for graduate work in journalism is required to complete 124 units of work. He must major in a specific field, preferably English, history or economics in his junior and senior years and must meet all upper division requirements for the A.B. degree in the liberal arts curricula.

- (d) The program of elective and required subjects in the upper division should include as many of the following subjects as possible: English 106A-106B, or 107A-107B, 4 units; English 130A-130B, 6 units; Economics 100, 3 units; History 145A-145B, or 146A-146B, 6 units; History 171A-171B, or 173A-173B, 6 units; Political Science 111, 3 units; Political Science 113, 3 units; Journalism 100, 3 units; Journalism 153A-153B, 2-6 units.

Preagricultural Curricula

- (a) The two-year curricula require the completion of 66 units of work for junior standing in recognized colleges of agriculture.
- (b) Requirements of the curriculum in plant and animal sciences: Chemistry 1A-1B, 10 units; Chemistry 7-8, 6 units; Botany 2A-2B, 8 units; Physics 2A-2B, 6 units; Zoology 1A-1B, 8 units; Geology 1A-1B, 4 units; Geology 1C, 3 units; English 1B-2 or 3, or Speech Arts 1A-1B, 6 units; Economics 1A-1B, 6 units; Botany 7, 4 units; Social Science 1, 3 units; Hygiene 1 or 2, 2 units; Physical Education, 2 units; Mathematics A, B, C, D, 8 units, or equivalent; Foreign Language, 6 units, or two years of high school foreign language; electives to make a total of 64 units of work. The summer course in Bacteriology 1 (General Bacteriology and Microbiology), 4 units, is recommended.
- (c) Requirements of the curriculum in forestry: Chemistry 1A-1B, 10 units; Botany 2A-2B, 8 units; Botany 7, 4 units; English 1B-2 or 3, or Speech Arts 1A-1B, 6 units; Mathematics 1A-1B, 6 units; Mathematics 3A, 3 units; Surveying 1A-1B, 6 units; Physics 2A-2B, 6 units; Geology 1A, or Geography 1, 4 or 3 units; Economics 1A-1B, 6 units; Social Science 1, 3 units; Hygiene 1 or 2, 2 units; Physical Education, 2 units; Foreign Language, 6 units, or two years of high school foreign language; electives, to make a total of 64 units of work.

Preengineering Curricula

- (a) The following list of subjects meets the requirements for the first year of a four-year curriculum in civil engineering, mechanical engineering, electrical engineering, or mining engineering: Mathematics 3A-3B, 6 units; Chemistry 1A-1B, 10 units; Physics 1A-1B, 6 units; English 1B, 3 units; Physical Education, 1 unit; electives, 3 units.
- (b) The following list of subjects together with (c) and (d) meets requirements for the second year of a four-year curriculum in civil engineering, mechanical engineering, and electrical engineering: Mathematics 4A-4B, 6 units; Physics 1C-1D, 6 units; Surveying 1B, 3 units; Industrial Arts 21, 3 units; Industrial Arts 23, 2 units; Geology 1A, 4 units; Physical Education, 1 unit.
- (c) Additional requirements in civil engineering: Industrial Arts 24, 3 units; Industrial Arts 28, 3 units; Surveying 1B, 3 units; Astronomy 3, 2 units.
- (d) Additional requirements in mechanical and electrical engineering: Industrial Arts 22, 3 units; Mathematics 124 or 119, 3 units.

Special Nondegree Curricula

Information relating to special two-year nondegree curricula such as aeronautics, mechanics, commerce, etc., may be obtained in a separate bulletin.

THE BACHELOR OF EDUCATION DEGREE

General Requirements

The Bachelor of Education Degree will be granted upon the successful completion of 124 semester hours of college or university work or the equivalent. Of this total requirement at least 106 semester hours of work shall be completed in regular campus classes, extension classes, or correspondence courses under college or university direction; and not exceed eighteen semester hours of credit may be allowed for experiences and activities that can be evaluated as equivalent to regular academic work.

Purpose of the Degree

The establishment of this degree provides an opportunity for improving professional training of those teachers who are now in service and who do not meet the standards of training at present required of new people entering the teaching profession.

The degree is professional in character and is not intended to qualify students for graduate standing in the universities.

The following classes of teachers are eligible for candidacy for the Bachelor of Education Degree:

1. Graduates of the 2-year, 2½-year, or 3-year curricula of the California State colleges when these institutions were normal schools or teachers colleges, who have had five or more years of teaching experience.
2. Holders of California life diplomas or those who have taught five or more years in the public schools of California.

Nature of Work and Fields of Study

Candidates will take academic courses designed to strengthen them in those fields of knowledge in which their initial training is inadequate. Professional courses in education will be included to qualify candidates to teach the newer curricula by means of the newer methods. All work will as far as possible be provided in classes for mature and experienced teachers.

Each candidate for the Bachelor of Education degree must include in the at least 60 semester hours of credit earned a minimum of six semester hours in each of three of the following six fields of knowledge.

1. Professional courses
2. Social sciences
3. Natural science
4. Psychology and philosophy
5. Fine arts and literature
6. Physical education, hygiene, and recreation

Effective Dates of the Bachelor of Education Curriculum

The operation of this curriculum shall not extend beyond February 1, 1948. All applications for candidacy must be filed and at least six semester hours of work completed before February 1, 1942. All the requirements must be completed and the degree conferred prior to February 1, 1947.

Application for Candidacy

Anyone desiring to establish candidacy for this degree should secure an application blank from the Registrar's office. An evaluation of record cannot be made until the application blank has been entirely filled out and filed with complete transcripts of academic record. A two-dollar evaluation fee must accompany each application.

COURSES OF INSTRUCTION

figures in parentheses indicate the unit value of the course.

courses numbered from 1 to 99 are lower division (freshman or sophomore courses; those numbered 100 and above are upper division junior or senior) courses.

Freshmen are not admitted into upper division courses. A sophomore may enroll in an upper division course for credit provided he has earned an average grade of not less than 1.5 grade points in all college work undertaken, and provided he receives the instructor's permission to enroll in the course. A second semester sophomore may enroll in an upper division course for upper division credit without the foregoing grade limitations provided the units earned in the upper division course or courses are in excess of the sixty-four units required in the lower division.

The "unit" represents an hour recitation or lecture, together with the required preparation, or three hours laboratory work each week for a semester of 18 weeks.

The semester in which courses are offered is designed as follows: (1) Fall; (2) Spring; (3) Fall and Spring; (4) Year course, beginning either Fall or Spring; (5) Year course. Courses designated as "Year course" begin in the Fall, but those given in the list below may be taken in the reverse order (i.e., the second semester of the course may be taken before the first semester) or the second semester may be taken alone. In the case of other year courses, students who have completed the equivalent of the first semester's work may seek permission from the instructor to take the second half of the course. Single semester courses having the letter B as part of the number (as for example, Art 61B) are not supposed to follow another course of the same number unless so indicated in the prerequisites to the course.

Year Courses Open to Registration in the Middle of the Year

Aesthetics 1A-1B	Spanish 102A-102B
Aesthetics 102A-102B	Spanish 104A-104B
Anthropology 50A-50B	Spanish 105A-105B
Anthropology 151A-151B	Spanish 110A-110B
Economics 160A-160B	History 4A-4B
English 4A-4B	History 8A-8B
English 52A-52B	History 111A-111B
English 56A-56B	History 121A-121B
French 101A-101B	History 145A-145B
French 105A-105B	History 146A-146B
French 107A-107B	History 151A-151B
French 110A-110B	History 156A-156B
French 111A-111B	History 171A-171B
Spanish 101A-101B	History 173A-173B

Merchandising 24A, 24B
Merchandising 25, 26, 27
Political Science 1A-1B
Speech Arts 55A-55B

Speech Arts 55C-55D
Speech Arts 155A-155B
Speech Arts 156A-156B

Although the College fully expects to carry out the arrangements planned in the list of courses, it reserves the right to make changes. Classes in the courses listed in which the enrollment does not come up to the minimum number set by the State Department of Education may not be offered or may be postponed for a semester or a year.

Aesthetics

LOWER DIVISION COURSES

1A-1B Survey of Music

Springster

Correlation of music and other arts. Designed to stimulate enjoyment of music by developing intelligent listening. The elements of music, its structure, folk music of all countries, musical instruments, and the contributions of the best known composers, with some biographical studies of these men. Compositions are presented by orthophonic recording and by class members. Attendance at a number of local concerts is required. No previous musical training or background is necessary. Music majors are required to complete additional assignments for full credit.

Year course (2-2)

5 Fundamentals of Art

Jackson

An illustrated lecture course involving a study of aesthetic meaning and its relation to the structure of art products. Designed to increase basic understanding and appreciation of the visual world in general and of the fine arts in particular.

Fall and Spring (2)

50 Appreciation and History of Art

Jackson

A survey of aesthetic development as revealed in the painting, sculpture, architecture, and handicrafts from dawn of art to the Renaissance. Illustrated.

Fall (3)

UPPER DIVISION COURSES

102A-102B History of Music

Springster

The various movements in the development of music as related to other arts. The chronological development of the art of music, with particular emphasis on the larger works. Considerable attention is given to the work of modern composers. Many symphonic works are studied from their orchestral scores. Music majors are required to complete additional assignments for full credit. Prerequisite: Aesthetics 1A-1B. Previous study of harmony and instrumentation is desirable.

Year course (1-1)

150 Appreciation and History of Art

Jackson

The period from the Renaissance through the modern school, treated in the same manner as in Aesthetics 50.

Spring (2)

Agriculture

Nature Study

course to show the student what material, selected from the various sciences, may be woven into a nature study course suitable for children, with special reference to school and home gardening and agriculture. The subject matter covered is partly drawn from the physical sciences, astronomy, physics, etc. (for the upper grades), and partly from life studies of the plant and animal world (for lower grades). May be credited as natural science only for students majoring in Education.

Fall and Spring (3) (Not offered in 1937-1938)

Anthropology

LOWER DIVISION COURSES

A-50B Man's Evolutionary History

Rogers

Origin and antiquity of man. Theories of human descent. Classification of races. Origin and early development of civilization.

Four course (3-3)

Social Anthropology

Rogers

Anthropological study of social institutions in primitive and civilized societies. The evolution of family organization, religion, property right, and government traced in elementary and advanced civilization. Ritualistic and education considered as processes of culture conservation and social control.

Fall and Spring (3)

Culture History

Rogers

The prehistoric and historic development of culture types contributing to Western European and American civilization of today. Egyptian, Celtic, Indo-European, and Oriental cultures examined in light of their bearing on contemporary civilization. Methods of culture spread examined and applied to specific traits. Spengler's theory of history and similar doctrines reviewed.

Spring (3)

UPPER DIVISION COURSES

A-151B The American Indian

Rogers

Pre-Columbian cultures of the American Indian. The origin and migration of New World peoples. Industries, arts, crafts, social organization, religion and other phases of American Indian civilization. The first semester presents a general introduction to New World culture with special attention to the tribes north of Mexico, while the second semester is concerned primarily with the civilizations of Mexico, Central and South America.

Four course (3-3) (Offered in 1938-39 and alternate years)

Primitive Cultures (Ethnology)

Rogers

History and cultural development of primitive races of mankind. Consideration given to industries, arts, social organization, and religion of living primitive peoples.

Fall (3) (Offered in 1937-38 and alternate years)

153 Primitive Religious Culture

Roge

Beliefs and ritual of primitive man. Magic and religion. Forms of animism and polytheism. Primitive mentality and the supernatural.
Spring (3) (Offered in 1937-38 and alternate years)

Art

Candidates for a teaching credential in art should refer to the statement "Admission to Upper Division Teaching Training" on page 20.

Lower division preparation for the liberal arts major in art and for the junior certificate: Aesthetics 5, 50; fourteen units carefully chosen from lower division art courses to meet the stated prerequisites for upper division work. These shall include Art A-B, 6A-6B, or the accepted equivalents, and six elective units in art.

Liberal arts major (upper division): Twenty-four upper division units. These shall include Art 112A, 115A-115B, 152A, 195, and twelve upper division elective units in art, and Aesthetics 150.

It is recommended that the students in meeting degree requirements and in choosing free electives, select from the following courses: Anthropology 151A-151B; English 4A-4B, 106A-106B, 107A-107B, 117; French A-111; History 4A-4B, 111A-111B.

For courses in Appreciation and History of Art and Fundamentals of Art, see Aesthetics, page 52.

LOWER DIVISION COURSES

Art Appreciation

8 Appreciation of Costume and Home Furnishing

Bors

Lectures, discussions, and demonstrations on the underlying principles of dress and home furnishing. (a) A study of the design, color, texture, fabric, and fashion in modern dress with emphasis on suitability to figure, the personality and the occasion. (b) Line form, color, texture, fabric, and lighting in relation to the home; the selection and arrangement of furniture, rugs, fabrics, pictures, etc., for all rooms of the home.

Fall (2)

Design

6A Structure

Bors

Fundamentals of design and composition and theory of color. Basic course used as a prerequisite for all advanced art work.

Fall and Spring (2)

6B Structure (continued)

Bors

Original work in creative design with special stress on modern tendencies. Prerequisite: Art 6A.

Fall and Spring (2)

7 Line, Color and Display

Bors

The principles of line, color and arrangement applied to merchandise in store and window display.

Spring (3)

Industrial Design

Hamann

Original design in its relationship to various fields—ceramics, furniture, tiles, jewelry, and books. A survey and study of materials and processes in machine and hand production. Prerequisite: Art 6A-6B.

1 (2)

Advanced Industrial Design

Hamann

Advanced problems with emphasis upon the related factors of material and production. Application of problems designed. Prerequisites: Art 6B, 11A.

ing (2)

Lettering

Borsum

Fundamental art principles applied to lettering. Practice for quick, accurate lettering; original problems using letters as design. Prerequisite: Art 6A.

1 (2)

Posters and Commercial Art

Borsum

The application of lettering to posters, newspaper and magazine advertising, and other forms of commercial art. The study of composition combined with lettering and special study of modern tendencies in publicity. Prerequisites: Art 6A, 14A.

ing (2)

Stage Design

Patterson

Theory of line, color, and lighting in relation to the stage. Original sets and costumes developed on a miniature stage. Study of the development of the modern art of the theater. Upper division credit will be given in this course to students of junior standing upon the completion of extra time work and additional original problems. Prerequisite: Art 6A.

1 (2)

Costume Design

Patterson

Original designs of modern costumes suitable to the individual or to distinct types; the drawing of fashion figures; the rendering of fabrics and textures. Prerequisite: Art 6A.

1 (2)

Drawing, Painting, and Sculpture

Freehand Drawing

Hamann

Quarter I: Problems involving perspective to develop ability to draw still life, furniture, exteriors, interiors, and the like.

Quarter II: Outdoor sketching of landscape and figure, and studio work in still life and costume pose. Emphasis on composition and technique in the handling of various mediums, pencil, pen and ink, charcoal, pastel, and water color.

or course (2-2)

15B Life Drawing

Jackson

Drawing from the nude model. Does not duplicate the former course in drawing, numbered Art 15A-15B.

or course, beginning either Fall or Spring (2-2)

16A-16B Painting

Jack

Semester I: Composition of still life and flower forms in water color

Semester II: Landscape and more advanced composition in water color

Prerequisite: Art A-B. No credit for students having completed 15A-15B, Painting.

Year course, beginning either Fall or Spring (2-2)

17A-17B Sculpture

H

Problems in clay modeling and in wood and stone carving, including original design and anatomical studies of the human figure. Particular stress laid on the qualities of materials as related to art form.

Year course, beginning either Fall or Spring (2-2)

Crafts

61A Elementary Crafts

Hama

Problems in elementary craft work, bookbinding, pottery, weaving, puppetry (including the dramatization and production of a puppet play). Prerequisite: Art 6A, when possible.

Fall and Spring (2)

61B Elementary Crafts

Hama

Problems involving the application of design principles to various fields: pottery, textiles, weaving, metal work, wood-carving, and book-binding. Prerequisite: Art 6A.

Fall and Spring (2)

UPPER DIVISION COURSES

Design

106A-106B Advanced Design

Bors

Advanced problems in design, color and technique. Planned for students interested in commercial design, illustration and industrial design. Prerequisites: Art A, 6A-6B; Aesthetics 5.

Year course (2-2)

112A-112B Organization

Jack

Imaginative organization of space by means of color, dark and light, perspective, and textures of various materials. Prerequisites: Art A, 6A-6B, and if possible 15A-15B or 106A.

Year course (2-2)

112C Illustration

Jack

Composition fulfilling the requirements of book illustration from poetic, imaginative tales, and legends, in black and white and color. Prerequisite: Art 112A.

Spring (2) (Offered in 1938-39 and alternate years)

152A Stage Design

Patter

See Art 52A

152B Stage Costume

Patter

Costume studied in relation to drama, opera and dance. Original design for mood and character. Practical problems in designing costumes

cessories for college productions. A brief history of costume from the Egyptian to the modern time. Prerequisites: Art 6A, 52A or 152A.

ring (2)

5 Home Decoration

Patterson

ectures and designing in class, trips to art galleries, stores, factories and homes, studying how to recognize and choose the best in furniture, rugs, wall coverings, textiles and pottery as to design, color and materials. Actual experience in designing and arranging furnishings in homes and offices. Working with local stores and architects. Arrangement of flowers and objects for different types of rooms and occasions. Prerequisites: Art A, 6A.

ring (2)

Drawing, Painting, and Sculpture

5A-115B Life Drawing and Painting

Jackson

rawing and painting from nude and costume models.

ear course, beginning either Fall or Spring (2-2)

5C-115D Advanced Life

Jackson

ainting from nude and costume models and advanced composition in oil. Portraiture. Prerequisite: Art 115A-115B.

ear course, beginning either Fall or Spring (2-2)

6A-116B Advanced Painting

Jackson

ainting in water color and oils from still life and landscape, stressing composition and technique. Prerequisite: Art 16A-16B.

ear course, beginning either Fall or Spring (2-2)

7A-117B Sculpture

Hord

ee Art 17A-17B.

Astronomy

ower division preparation in astronomy desirable for advanced work: Astronomy 1, 3, 9, and 11; Mathematics 3A-3B, 4A-4B; Physics 1A-1B and 1C-1D; a reading knowledge of German (French also desirable).

LOWER DIVISION COURSES

Descriptive Astronomy

C. E. Smith

cultural course planned to develop an appreciation of astronomy with special emphasis on the solar system. Only calculations of an elementary nature are used. Especial attention given to the methods and instruments by means of which astronomical knowledge has been gained. A 6-inch Alvin Clarke telescope is available for observation. Prerequisites: Elementary algebra and plane geometry.

ill and Spring (3)

Surveyor's Course in Elementary Practical Astronomy C. E. Smith
e principles of spherical trigonometry and astronomy adapted to the needs of engineering students. Computation. Prerequisites: Surveying or permission of instructor.

ring (2)

5 Historic Development of Astronomy

C. E. Smi

The leading facts now known in astronomy in the light of circumstances attending their discovery. Prerequisite: Astronomy 1.

Spring (3)

9 Practice in Observing

C. E. Smi

A laboratory course designed particularly to go along with and to supplement Astronomy 1. The course will include constellation study, use of astronomical coordinates, elementary methods of determining time and latitude, and descriptive observations of celestial objects with the six-inch telescope. Prerequisite: Astronomy 1 or registration in Astronomy 1.

Fall and Spring (1)

11 Modern Astronomy

C. E. Smi

A study of sidereal astronomy and astrophysics in the light of modern research, especially photographic and spectrographic. Prerequisite: Astronomy 1 and a knowledge of physics.

Fall (3)

UPPER DIVISION COURSE

100 Special Problems

C. E. Smi

Admission by consent of instructor. Credit and hours to be arranged in each case. Open to students who have completed six units in astronomy.

Fall and Spring (1 or 2)

Biological Sciences

(General Biological Science, Botany, Zoology)

General students who wish to take only one or two courses in the department should register for Biological Science 1, 10A-10B, Zoology 113C, 114A or 114B, Botany 4 or 5 (see below for prerequisites for each course).

Lower division preparation in botany for advanced work and for the junior certificate: Botany 2A, 2B, 4, 7, and Chemistry 1A.

Lower division preparation for the liberal arts major in zoology and for the junior certificate: Zoology 1A, 1B, and high school chemistry or Chemistry 1A-1B. Recommended: German, French, Botany 2A, 2B, 4, 7. Liberal arts major in zoology: (1) At least a C average in upper division major courses. (2) Twenty-four units of upper division courses in zoology or eighteen in the major subject and six in related courses in botany, organic chemistry, physics, physiology, and bacteriology.

Students preparing to teach science in the junior high school should take to include courses in zoology, botany, bacteriology, physics, chemistry (at least high school chemistry), and Education 120. The following are also desirable: geography, geology, anthropology, astronomy, and upper division biological sciences.

Fees: A fee is required in all laboratory courses in this department. The fee covers the cost of materials used. For breakage and extra material in addition to the estimated need an extra charge must be made.

LOWER DIVISION COURSES

Man and His Biological World

Johnson

general biology course with lectures, discussion, and demonstrations one hour a week. For students who are not required to take Biological Science 10A-10B and who prefer a shorter course with no required laboratory work. A demonstration laboratory is usually offered one day a week for those who care to attend; attendance is optional. Not open to students who have taken 10A-10B or any combination of Zoology 1A-1B or high school zoology with Botany 2A-2B or high school botany. Students who have credit for this course and later elect 10A-10B receive 4 units of credit for 10A-10B instead of 6.

Spring (3)

10A-10B Science of Life

Lectures: Johnson

Laboratory: Crouch, Harvey

the fundamentals of plant and animal biology, with elementary work in human physiology and heredity. Laboratory work supplements the lectures and includes a study of living and preserved material. Aim of the course to acquaint the student with the basic facts of biology. Designed not only to give the general student an acquaintance with living organisms and their relationships, but also to furnish the prospective teacher with an adequate background for nature study teaching. Two lectures and one three-hour laboratory period per week. Designed for those who do not expect to specialize in zoology or botany, but not open for credit to students who have taken Zoology 1A, or Botany 2A. Students who have taken 10A-10B may elect Zoology 1B or Botany 2A, 2B for credit.

four course (3-3)

Bacteriology

Special Study

Reading or work other than is outlined in the regular courses. (Bacteriology 1, General, and 102, Advanced Bacteriology, or 103, Current Problems in Hygiene and Bacteriology, are usually offered in the summer session). Admission only by consent of the instructor with whom the work is to be done and the chairman of the Biological Science department. Credit and hours to be arranged in each case. Open to students who have completed at least 6 units of bacteriology with grades of A or B.

Botany

LOWER DIVISION COURSES

General

Harvey

fundamentals of structure and general behavior of seed plants. Two lectures or recitations and two three-hour laboratory periods per week.

fall (4)

General

Harvey

continuation of 2A treating morphology and relationship of the lower plants and including an introduction to classification of seed plants. Lectures and laboratory as in 2A.

Spring (4)

4 California Plants

Harv

Classification and ecology of representative orders of wild flowers, trees and chaparral of the San Diego region, including practice in the use of keys. One lecture and three hours laboratory per week. Occasional Saturday field trips.

Spring (2)

7 Plant Physiology

Harv

The activities of plants, including food manufacture, absorption, conduction, transpiration, respiration, growth, and movement. Two lectures and six hours of laboratory per week. Prerequisite: Biol. Science 10B or Botany 2A.

Fall (4) (Offered in 1938-39 and alternate years.)

UPPER DIVISION COURSES

102 Plant Geography

Harv

Lectures and field work on the principles of geographical distribution of plants. Prerequisite: Botany 2A-2B, or 4, or equivalent.

Fall (2) (Offered in 1937-38 and alternate years.)

104 Taxonomy

Harv

Identification, classification and distribution of representative orders of flowering plants. Six hours per week of lectures, laboratory, and field work. Prerequisites: Botany 2A-2B, 4.

Spring (3) (Offered in 1938-39 and alternate years.)

199 Special Study

Instructors of the Department
(Johnson in charge)

Reading or work other than is outlined in the above courses. Admission by consent of the instructor with whom the work is to be done and the head of the department. Credit and hours to be arranged in each case. Open to students who have completed at least ten units of upper division work in the department with a grade of A or B.

Fall and Spring (1 or 2)

Zoology

LOWER DIVISION COURSES

1A General

Harwood and Ho

An introduction to animal biology dealing with structure, functions, and evolution of animal life. Laboratory work supplementing the lectures and based on the study and observation of living and preserved material (frogs and invertebrates). Valuable to the general student as well as the biology specialist, acquainting one with the fundamental facts and theories of biology as they pertain to animal life. Two lectures or recitations and two three-hour laboratory periods per week.

Fall (4)

1B General

Harwood and Ho

A continuation of 1A. The structure, relationships, and classification of the chordates. Two lectures and two three-hour laboratory periods per week. Prerequisite: Zoology 1A or Biological Science 10B.

Spring (4)

Anatomy and Physiology

elementary course in human anatomy and physiology. Prerequisite: high school biology, or Biol. Science 10A-10B or Zoology 1A-1B. Lectures six hours per week.

Autumn and Spring (3) (Offered in 1938-39 and alternate years.)

UPPER DIVISION COURSES

Embryology

Johnson

development of vertebrates as illustrated by the frog, chick, and fish. Six hours of laboratory and two hours of lecture per week. Prerequisite: Zoology 1B or Biol. Science 10B.

Autumn and Fall (4) (Offered in 1938-39 and alternate years.)

Comparative Anatomy of the Vertebrates

Crouch

section, study and comparison of organ systems of typical vertebrates. Two hours per week of lecture and six hours of laboratory. Prerequisite: Zoology 1B or Biol. Science 10B.

Autumn (4) (Offered in 1937-38 and alternate years.)

Marine Zoology

Johnson

designed to acquaint the student with the many interesting animals found along the beaches in the San Diego region. Identification, distribution, associations, structure, and to some extent, behavior and life histories of marine organisms. Frequent collecting trips to the beach and study of the same animals in the laboratory. Prerequisite: A laboratory course in elementary biology or zoology.

Autumn (3) (Offered in 1937-38 and alternate years)

A Taxonomy and Natural History of the Mammals

Crouch

frequent field trips and the identification of preserved material. Three hours of laboratory per week.

Autumn (1)

B Ornithology

Crouch

study and identification of birds, especially those of the Pacific coast and the San Diego region. One hour of lecture and six hours per week of laboratory, or field excursions. Prerequisite: Zoology 1B, or Biol. Science 10B.

Autumn (3) (Offered in 1938-39 and alternate years)

C Field Study of Birds

Crouch

study and identification of the birds of the San Diego region. Three hours of laboratory or field work per week.

Autumn (1) (Offered in 1937-38 and alternate years)

A Genetics

Harwood

general introductory course designed to acquaint the student with the fundamental principles of heredity and variation. Special attention given to the Mendelian interpretations of the facts of inheritance. Two lectures per week.

Autumn (2)

114B Evolution

Johns

The development of theories of evolution. Two lectures or discussion periods per week.

Spring (2) (Offered in 1938-39 and alternate years)

121 Entomology

Harw

The classification, life history, structure, and physiology of insects. Prerequisite: Zoology 1A or Biol. Science 10B. Two hours of lecture and six hours of laboratory per week.

Spring (4) (Offered in 1938-39 and alternate years)

130 Readings in Biology

Harw

Readings from a suggested bibliography with informal class discussion of topics. Subjects discussed will include history of biology, biological principles, ecology, economic zoology, zoogeography, breeding habits, and animal behavior.

Spring (2) (Offered in 1937-38 and alternate years)

199 Special Study

Instructors of the Department
(Johnson in charge)

Reading or work other than is outlined in the above courses. Admission only by consent of the instructor with whom the work is to be done and the head of the department. Credit and hours to be arranged in each case. Open to students who have completed at least ten units of work in the department with a grade of A or B.

Fall and Spring (1 or 2)

Chemistry

Lower division preparation for the liberal arts major in chemistry for the junior certificate: Chemistry 1A-1B with an average grade of C or better, Chemistry 7-8, Physics 2A-2B and 3A-3B or their equivalent, Mathematics 3A-3B or the equivalent, and a reading knowledge of German. Students planning to do graduate work in chemistry or to transfer to another college, and there work for a degree with a major in chemistry are advised to take Physics 1A-1B-1C-1D and Mathematics 3A-3B-4B in place of the courses listed above.

Liberal arts major (upper division): A minimum of twenty-four upper division units in chemistry including Chemistry 105A, 110A-110B, 111A-111B. The choice of a related minor and the organization of the course of the major student must follow a definite plan approved by the department.

For requirements for liberal arts major in physical science, see pages 41, 43.

LOWER DIVISION COURSES

1A-1B General Chemistry

Messner, Robin

The general principles and laws of chemistry, and a description of elements and their compounds. Two lectures, one quiz and two laboratory periods per week. The laboratory work in the second semester consists of work in qualitative analysis. Prerequisites: At least two years of high school mathematics. Recommended: High school chemistry and physics.

Year course (5-5)

3 Organic Chemistry

Robinson

general consideration of the carbon compounds (both aliphatic and aromatic) and their derivatives; their synthesis, constitution and properties, and the principles involved. Two lectures and one laboratory period per week first semester; one lecture and two laboratory periods per week second semester. Prerequisite: Chemistry 1A-1B.

Laboratory course (3-3)

UPPER DIVISION COURSES

110A Quantitative Analysis

Messner

principles of gravimetric and volumetric analysis. Discussions of the theory of quantitative analysis and practice in the standardization of reagents and analysis of samples. One lecture and two laboratory periods per week. Prerequisite: Chemistry 1A-1B.

Laboratory (3)

110B Advanced Quantitative Analysis

Messner

advanced work in the theory and practice of volumetric, gravimetric and micro-analysis. One lecture and two laboratory periods per week. Prerequisite: Chemistry 105.

Laboratory (3)

110-108 Organic Chemistry

Robinson

upper division course covering the same field as Chemistry 7-8 but including some more advanced work. Two lectures and one laboratory period per week first semester; two lectures and two laboratory periods per week second semester. Prerequisite: Chemistry 1A-1B.

Laboratory course (3-4)

A-110B Physical Chemistry

Messner

lectures and problems on theoretical principles of chemistry. Prerequisites: Physics 1A-1B or 2A-2B and Chemistry 105 which may be taken concurrently. With the approval of the instructor, advanced courses in physics may be substituted for Chemistry 105.

Laboratory course (3-3)

A-111B Physical Chemistry—Laboratory

Robinson

physico-chemical problems and measurements. Two laboratory periods per week. Prerequisites: Credit or registration in Chemistry 110A-110B, Physics 1A-1B or 2A-2B, and calculus. With the consent of the instructor, advanced courses in physics may be substituted for Chemistry 105 which may be taken concurrently.

Laboratory course (2-2)

Industrial Analysis

Robinson

laboratory course including the analysis of fuels, petroleum products, minerals, and gas. Prerequisite: Chemistry 105 which may be taken concurrently.

Laboratory (2) (Offered in 1937-38 and alternate years)

Biochemistry

Messner

introductory lecture course covering the carbohydrates, proteins, fats and the changes which they undergo in digestion and metabolism, as well

as a consideration of the vitamins and other accessory food factors and their importance to the body. A brief discussion of the chemistry of plant life. Prerequisites: Credit or registration in Chemistry 110A-110B. *Fall (3) (Offered in 1937-38 and alternate years)*

118 Colloid Chemistry

A lecture course covering the theoretical principles of colloid chemistry and the preparation, properties and practical applications of colloids. Prerequisite: Chemistry 110A-110B.

Fall (2) (Offered in 1937-38 and alternate years)

123-124 Organic Preparations

A laboratory course illustrating some of the more important synthetic methods of organic chemistry. Laboratory and conferences. Prerequisite: Chemistry 7-8. A reading knowledge of German recommended.

Year course, beginning either Fall or Spring (1 to 5-1 to 5)

125 History of Chemistry

Development of the science of chemistry from the time of the alchemists to the present. Conducted on the reading, report, and seminar basis. Prerequisite: Chemistry 110A-110B.

Fall (2) (Offered in 1938-39 and alternate years)

144 Industrial Chemistry

Industrial stoichiometry, flow sheets, flow of fluids and unit processes. Lectures, problems, and reports. Prerequisites: Chemistry 1A-1B, Physics 1A-1B or 2A-2B, and calculus.

Spring (3) (Offered in 1937-38 and in alternate years)

199 Special Topics

Instructors of the Department

Supervised individual work in specialized branches of chemistry such as colloid chemistry, biochemistry, applications of the phase rule. Admission only by the consent of the instructor. Hours and credit to be arranged in each case. Only open to upper division students who have shown their ability to do A or B work in chemistry.

Fall and Spring (1-3)

ECONOMICS

Lower division preparation for the liberal arts major in economics: for the junior certificate: Economics 1A-1B and at least one of the following: Political Science 1A-1B; History 4A-4B; History 8A-8B; Psychology 1A and 1B or 4A or 4B; Geography 1 and 2; Anthropology 50B. Recommended: Sociology 50; Economics 14A-14B, 18A-18B.

Liberal arts major (upper division) in economics, required: Economics 100, 102, 140 and 199, with 6 units selected from the following: Economics 123, 131, 133, 135, and 171. Electives: Seven upper division units in economics. Economic geography may be substituted for three elective units in economics.

Commerce Candidates for a teaching credential in business education should refer to the statement "Admission to Upper Division Teacher Training" on page 20 and to curriculum for the A.B. degree with special credential in Business Education on page 29.

upper division preparation for the liberal arts major in commerce and the junior certificate: Economics 1A-1B, 11, 14A-14B (6 units), A-18B; English 1B, 2 or 3; Geography 1-2; Mathematics D and G, or equivalents, and Economics 2; History 4A-4B or 8A-8B or Political Science 1A-1B.

liberal arts major (upper division) in commerce, required: Economics 11, 140, 199 and 16 units additional chosen in one of the following groups:

Accounting: Economics 160A-160B, 161, 163 and 4 units in electives in economics.

Banking and Finance: Economics 133, 134, 135, and 7 units in electives in economics.

Geography 141 may be used in the electives under A and B.

LOWER DIVISION COURSES

A-1B Principles of Economics

Cameron

The basic principles of economics: utility, wealth, value, price; economic production, distribution, and consumption; rent, interest, wages, and profit; competition, monopoly, and large scale production; property, economic waste, and luxury; money and banking, international trade and tariffs; transportation corporations, labor problems, socialism, taxation, etc. Aims of the course: (1) to provide a foundation for further intensive study of economic problems; (2) to furnish to those who expect to follow business pursuits a broad foundation in economic principles; and (3) to introduce future citizens to political and economic problems of the present time. Lectures, discussions, quizzes, and collateral reading. Not open to entering freshmen except by special arrangement.

Prerequisite course (3-3)

A-18B Mathematics of Finance

Wright

Interest and annuities; amortization; sinking funds; valuation of bonds; depreciation; mathematics of building and loan associations; mathematics of life insurance. Prerequisites: Two years of algebra in high school, or equivalents.

Prerequisite (3)

A-14B Economic History of the United States

Wright

A comprehensive survey of American economic development and of international legislation in the field of industry.

Prerequisite (3)

A-14B Accounting

Wright

Knowledge of bookkeeping not required and not advantageous. The balance sheet; profit and loss statement; various types of books of original entry; the opening, conducting, and closing of books for different kinds of businesses; organizations, reorganizations, dissolutions, and consolidations, etc., keeping in view the best modern accounting practice. Several hours lecture and laboratory.

Prerequisite course (3 or 4-3 or 4)

A-18B Commercial Law

Stanton

The leading and fundamental principles of business law. Simple cases showing the actual application of the principles to commercial and business transactions.

ness transactions, rather than the development of those principles. The subjects covered: contracts, sales, agency, partnerships, corporations, real property, negotiable instruments, insurance, and wills, with a brief study of evidence.

Year course (3-3)

UPPER DIVISION COURSES

100 Modern Economic Thought

A. G. Petersen

Classical doctrine in the light of recent economic theory. A critical analysis of contemporary economic thought. Prerequisite: Economics 1A-1B.

Spring (3) (Offered in 1938-39 and alternate years)

102 Contemporary Theories of Social Control

A. G. Petersen

A study of principles, plans and movements for social and economic control including consideration of anarchism, individualism and liberalism, collectivism, socialism, communism, fascism, and the New Deal.

Spring (3) (Offered in 1937-38 and alternate years)

121 Business Administration

A. G. Petersen

Problems of business administration as an interrelated whole and an indication of lines of study which may lead to the solution of the problems. A discussion of the problems of the business administrator with particular reference to the character of the problems involved and to the control policies and devices of the manager. Questions, problems and case studies. Prerequisite: Economics 1A-1B.

Fall (3)

123 Marketing

Our distributive organization and its functions, including the marketing of both agricultural and manufactured products. Prerequisite: Economics 1A-1B.

Spring (3) (Not offered in 1937-38)

125A Advertising

Functions, theory, principles and applications; selecting the right appeals; surveys and analyses; studying markets; budgeting the appropriation; layouts, types, borders and illustrations; use of color; choice of medium; writing publicity and promotion stories; openings, anniversaries, sales and special events; institutional copy; the advertising agency and its functions; sales and collection letters.

Fall (2) (Not offered in 1937-38)

125B Salesmanship

Salesmanship, the market basket of knowledge; the mechanics of the mind; overcoming fear; the human element in selling; meeting competition; analyzing a sale in advance and methods of using this analysis in consummating a sale; personal attributes; selling an invisible commodity; selling a specialty; retail selling; the steps of a sale. Actual merchandise will be used in demonstration. Outstanding salesmen in various crafts will illustrate correct methods of selling.

Spring (2) (Not offered in 1937-38)

Real Estate

Cameron

Real estate in all its aspects: property rights, transfer of title, valuation, finance, selling, property management, taxation, insurance, city planning, and the like, with special emphasis upon problems as they exist in San Diego.

Offered (3)

Public Finance

Principles and practice of taxation, public expenditures, and financial administration. Prerequisite: Economics 1A-1B.

Offered (3) (Not offered in 1937-38)

Corporation Finance

Cameron

The corporate form of organization, instruments of long-time finance, methods of raising capital, efficient financial management, and the financial aspects of reorganizations, and governmental control. Prerequisite: Economics 1A-1B.

Offered (3)

Investments

Cameron

Investment principles and practices with emphasis upon problems of the small investor, such as tests of a good investment, sources of information, types of stocks and bonds, mechanics of purchase and sale, investment trusts, real estate mortgages, and the like.

Offered (3)

Money and Banking

Cameron

The elements of monetary theory. History and principles of banking with special reference to the banking system of the United States. Prerequisite: Economics 1A-1B.

Offered (3)

Statistical Methods

Deputy

The nature and uses of statistical method in the social sciences. Practice in the tabular and graphical presentation of data; in the computation of averages, ratios and coefficients, measures of dispersion, and measures of relationship. Research studies are made, utilizing data obtained from typical economic and commercial situations, involving index numbers, time series, and business cycles and barometers. Opportunity to obtain practice in the use of calculating machines and other aids to computation. Prerequisite: Mathematics A, C, and D, or equivalents. Only two units of credit are available for this course in the case of students who previously have completed Education 140.

Offered (3)

E-160B Advanced Accounting

Wright

An intensive study of the corporation, its accounting and financial problems; a thorough study of the balance sheet; depreciation; factory accounting, etc. Under practical accounting an endeavor is made to design, construct, and operate sets of books to meet the needs of different conditions and kinds of businesses. Six hours lecture and laboratory. Prerequisite: Economics 14A-14B.

Offered in alternate years (3-3) (Offered in 1938-39 and in alternate years)

161 Cost Accounting

Principles and methods of cost accounting in the mercantile establishment and in the factory. A study of bookkeeping procedure, the forms used, and their application to practical problems. Prerequisite: Economics 14A-14B.

Spring (3) (Offered in 1937-38)

162 Accounting Systems

The accounting systems used in various types of business and financial concerns. Some practice in devising and installing systems. Prerequisite: Economics 14A-14B.

Spring (3)

163 Machine Accounting

The application of mechanical accounting devices to accounting conditions together with a study of efficient machine methods that conform to good accounting practice and yet meet the practical accounting requirements that are found in many classes of business. In addition to a thorough study of machine installations, the course requires considerable practical work in the operation of standard accounting machinery. Prerequisite: Economics 14A-14B.

Fall (3) (Offered in 1937-38)

164 Income Tax Procedure

A consideration of the problems arising from the Federal income tax. The problems are approached from the point of view of the taxpayer who desires to determine the exact application of the law to the interests he represents as well as from the accounting point of view. No knowledge of accounting procedure is necessary.

Fall (2)

165 Auditing

The fundamental principles of accepted procedures of auditing and related types of accounting engagements.

Year Course (2-2) (Offered in 1938-39 and alternate years.)

171 Transportation

The development of railway transportation; railroad financing; rates and rate making; governmental regulation; government operation of railroads during the war; recent development of motor and air transportation; current problems. Prerequisite: Economics 1A-1B.

Spring (3) (Offered in 1938-39 and alternate years)

199 Special Study

Designed exclusively for seniors with a major in economics or commerce.

Spring (2)

Economic Geography

(See Geography)

Social Science

LOWER DIVISION COURSES

Contemporary Political, Social and Economic Problems

A. G. Peterson

analysis of major problems of the present day with reference to the conditions out of which they arise and with regard to their essential unity and interrelationships and an attempt to introduce the student to sound methods of approach in dealing with these problems. Prerequisite: Sophomore standing.

Fall and Spring (3)

Backgrounds of Social Institutions

Rogers

introductory survey of sociological viewpoints. Origin and spread of civilization. Economic backgrounds of society. Emergence and evolution of social institutions: the family, the state, the church. The development of the idea of progress and the development of scientific thought.

Fall (3)

Sociology

General

Kelly

study of the nature and organization of human group activity, including the relation of cultural heritage to public opinion and social change. Previous preparation in biology and psychology recommended.

Fall and Spring (3)

Social Psychology

(See Psychology)

Merchandising

Elements of Merchandising

Watenpaugh

basic course covering the field of merchandising through a survey of various methods by which products reach the retailer. A study of market structure, fundamental principles and functions of marketing.

Fall (3)

Principles of Merchandising

Watenpaugh

basic course covering retail institutions, their origin, growth, and functions. Types of institutions and functions performed by each. Analysis of difficulties confronting the retailer and the changes that are taking place in retailing. Ways and means of progress and intelligent use of resources available to retailers.

Fall (3)

Salesmanship

Watenpaugh

mechanics and theory of salesmanship; methods of approach and demonstration; selling ideas and services; meeting objections; inducing sales; closing sales; the personal factor in connection with the sale. Standing of salesmen in the various crafts will illustrate correct methods of selling.

Fall (2)

26 Advertising

Watenpau

Functions, theory, principles and applications; selecting the right appearance surveys and analyses; studying markets; budgeting the appropriate layouts, type, borders and illustrations; use of color; choice of medium; writing publicity and promotion stories; openings, anniversaries, sales and special events; institutional copy; the advertising agency and its functions; sales and collection letters.

Spring (2)

27 Applied Salesmanship

Watenpau

Coordination of selling and theories of sales efficiency; store practice and theories of store operation. Application of theory to practice. Either supervised work in cooperating stores or in general selling. Discussion of problems arising from the student's work. Prerequisites: Merchandising 25 and 24A or 24B or 26.

Fall (3)

28 Store Management

Watenpau

The field of retailing from the point of view of the store manager including location, organization, personnel, service features. Sales promotion and store problems regarding claims and adjustments, return goods, delivery. Investigations of the problems which confront the managers of retail stores. Prerequisite: Merchandising 24A-24B.

Fall (3)

Secretarial Training

A Business Mathematics

Wright

A practical course in the mathematics of business. A thorough study of interest, compound interest, discount, amortization tables, insurance rates, etc.

Fall (1) (No degree credits in Liberal Arts curricula.)

1A-1B Typewriting

Amsd

A rapid development of a thorough command of a keyboard by the touch method. The acquisition of speed and the artistic arrangement of typewritten material with special reference to commercial forms, tabulation and billing; specifications, legal forms, and preparation of manuscript transcription, mimeographing, etc. Eight hours lecture and laboratory practice.

Year course (3-3) (Only three units will be counted in satisfying the A. B. degree requirements in Liberal Arts curricula.)

2A Typewriting

Amsd

A short course designed for those not wishing to enter the business office but desiring a knowledge of the use of the typewriter. Five hours laboratory practice.

Spring (2)

3A Office Methods and Appliances

Wright

Practice and principles of office management, including organization, arrangement, and operation. Study and use of modern office appliances such as the multigraph, mimeograph, filing devices, calculating and bookkeeping machines. Prerequisite: Secretarial Training 1A or its equivalent.

Spring (3)

-5B Stenography**Amsden**

intensive course designed for the practical preparation of office secretaries. A thorough study of the Gregg System. Development of the ability to read and write shorthand rapidly and correctly, both literary and commercial. The shorthand speed necessary to pass a civil service examination is attained by the end of the year.

var course (5-5)

-6B Advanced Stenography**Amsden**

Development of speed in writing and transcription. Advanced dictation of letter forms, legal forms, speeches, and literary and technical material.

var course (3-3)

A Business Correspondence**Amsden**

Theory and practice of business correspondence. Lectures and laboratory work. Prerequisite: English 1A or equivalent (as indicated by subject A Test or record from another college).

II (3)

EDUCATION**LOWER DIVISION COURSES****Music in the Elementary School****Springston**

Main objectives of music teaching in the public elementary schools. Study of the child voice. Organization of song material by grades. Procedure in presenting rote songs, ear training, elementary notation, music dictating, and part singing. Conducting. Not open to students taking the elementary credential, nor to freshmen. Prerequisite: Music 1A, or the equivalent.

II and Spring (2)

Art in the Elementary School**Patterson**

Discussion of the elements and principles of art and their place in the expression and appreciation of the elementary school child. Lectures illustrated with examples of children's work and opportunity given for experience with mediums used in elementary school problems. Not open to students taking the elementary credential. Prerequisite: Art 6A.

II and Spring (2)

UPPER DIVISION COURSES**Philosophy of Education****Ault**

The fundamental biological, psychological, philosophical, social principles underlying modern education, in connection with the demands of modern society in a complex social, economic, and scientific world, with a view to the formulation of a working philosophy for the educative process. Designed as a culmination of the studies of education and its procedures. Open only to students with senior standing.

Spring (3)

History of Education**Ault**

Brief study of early Hebrew, Greek, Roman and early Christian education; of the changes brought about by the Renaissance; of the transition to modern secular education; brief reviews of the educational philosophies of the great reformers; a concluding study of the development of

the American school system and of American ideals and practices in education. Only 2 units allowed for students having credit for Education S107, History of Education in the United States (offered in the summer session).

Fall (3)

108 Educational Measurements

Depu

A brief survey of the development of scientific measurement in the elementary school field, including an intensive study of the more reliable and valid tests of school achievement and of mental ability. Statistical training given in handling data obtained by using measurements in typical school situations, leading to a study of the uses of tests. Practice in the construction of teacher-made, objective tests in the elementary school subjects.

Fall and Spring (3)

109 Educational Administration and Supervision

A survey of the systems of organization, classification, and promotion of pupils, and such problems as finance, the teaching staff, building standard extra-curricular activities, etc. Prerequisites: Education 125, 108, or equivalents.

Summer (2)

110 Educational Organization and Supervision

Types of supervision and methods of evaluating and improving teaching. Prerequisites: Education 125, 108, or equivalents.

Summer (2)

111 English in the Junior High School

Tra

Objectives of literature and language teaching in the junior high school; criteria for selection of material; technique of classroom procedure; observation in the city schools. Prerequisite: The satisfaction of the lower division requirements in English for the teaching major in English. *Spring (2)*

112 Mathematics in the Junior High School

Livingsto

The subject matter, organization, and methods of teaching mathematics in a junior high school curriculum. Specific problems: the application of arithmetic in current social and business life, intuitive geometry, graph representation, the phase of algebra suitable to the junior high school pupil, preparation for senior high school mathematics. Prerequisites: Psychology 1A and a passing grade in the Fundamentals Test.

Students may take this course in connection with Mathematics 10 by arrangements with the instructor.

(2)

114 Social Science in the Junior High School

Perr

The teaching of some of the elementary facts and principles of a "general social science suited to the experience and development of the junior high school pupil, through the medium of such social studies in the junior high school curriculum as history, geography, and civics. Methods of developing a genuine and continuing interest in social and civic problems through observation and reading, discussed and illustrated. Special stress on

ating historical and geographical material for educative purposes on level. Prerequisites: Six units of geography and six units of history. and Spring (2)

Practice Teaching

Ault and Supervisors

ematic observation, participation and teaching under supervision in campus training school, the Euclid affiliated city elementary school. Woodrow Wilson Junior High School, and the senior high schools e city of San Diego and vicinity.

general plan is for elementary school credential candidates to take, dition to the education practicums, an afternoon of teaching daily in ampus training school or two and one-half hours daily in the Euclid d throughout one semester; junior high school and special secondary d credential candidates will be guided by their adviser relative to the bution of their practice teaching. For those seeking a combination edentials, the requirements for each teaching level must be satisfied. her information regarding this requirement should be requested of Dean of Education when the student first registers for practice ing.

y clock hours of practice teaching will usually carry one unit of t in the course, but the final amount of credit allowed will depend the character and quality of the teaching done by the student. ice teaching requirements may be reduced for those who furnish evi- e of successful public school experience.

maximum amount of credit allowed for this course is twelve units. universities usually reduce the amount of practice teaching credit will allow to four units. Students planning to transfer to such tutions should be prepared to meet this reduction with an equal ber of acceptable units in other courses.

rade below a C is acceptable for credit in this course.

quisites: Completion of 75 units of college work: admission to upper on teacher training: a C average in all college work and in the of the preceding semester; three units of work in psychology. redit will be given unless the student registers for this course in the of the Dean of Education.

Art in the Junior High School

Patterson

urriculum planning for junior high schools and studio problems and ssion. Prerequisite: Education 19.

g (2) (Offered in 1938-39 and alternate years)

General Science in the Junior High School

Baird, Johnson

content, methods, field work, text books, laboratory work, equipment. eference reading for teaching general science in a junior high school. equisites: Eighteen units of college science including one year-course college biological science, Physics 2A-2B, or equivalent, and high l or college chemistry.

g (2) (Offered in 1938-39 and alternate years)

Principles of Secondary Education

Perry

principles of educational science that should underlie the organi- l, administration and curriculum of the secondary school. Prevailing rns of high school education; tendencies in the direction of future

development. Particular attention to the method of directing learning in the secondary schools. Prerequisite: Psychology 1A. Open only to students with senior standing.

Fall and Spring (3)

124 Romance Languages in the Junior High School Phil

The main questions of pronunciation, grammar, composition, reading texts, etc., as applied to teaching elementary classes in French or Spanish; the different methods; their history and value. Prerequisite: Two years of college French or Spanish.

Spring (2) (Offered in 1937-38 and alternate years)

125 The Elementary School Curriculum Dep

An analytical and constructive curricular study of the subject matter taught in the elementary school, with particular emphasis on the upper elementary grades; together with an intensive study of teaching techniques in the elementary school, including observation of typical teaching procedures. The course embraces individual and group research work in curricular materials, visual aids, type lessons, and experimental studies of teaching methods.

Required of candidates for junior high and special credentials in art or physical education. Candidates for a combination of the elementary and junior high school credentials must register for the education practice instead of this course.

Fall (3)

127 Music in the Secondary School L. D. Sr

Main objectives of music teaching in the public secondary schools. Organization of the chorus and glee clubs, voice testing, seating, a supply of song materials available. Organization of courses in applied music, harmony, history and appreciation.

Fall (2) (Offered in 1937-38 and alternate years)

130 Educational Psychology Dep

Man's equipment for learning and the learning process. Consideration given to human behavior which is fundamental to learning. The study of learning includes such topics as laws of learning, improvements in learning, remembering and forgetting, fatigue in learning, and the transfer of training. Prerequisite: Psychology 1A.

Spring (3)

137 Comparative Education

School systems of England, France, Germany, and Denmark; traits of peoples; origin and development of school systems; literacy of populations; traditional influences; characteristic types of schools and educational procedures; governmental and private support; training of teachers. A knowledge of History of Education desirable but not required.

Fall (3) (Not offered in 1937-38)

140 Elementary Educational Statistics Dep

An introductory study of measures of central tendency, of variability, of relationship which are commonly used in connection with educational work. Laboratory training in statistical method and opportunity to obtain practice in the use of calculating machines and other aids to

ation. Data for statistical research taken from typical school situations. Only 2 units allowed students who have taken Economics 140.
7 (3)

Educational Sociology

Hepner

consideration of school practices in light of social needs; interrelationships of schools and other social agencies; and trends in cooperative activities among community organizations. Selected individual study projects to make personal contacts with various types of public and private social institutions and with some current social movements. Prerequisite: Upper division standing.

ing (3)

Organization and Administration of Music Education

L. D. Smith

theory of the general principles of music administration; correlation of music with the various subjects in the public schools; music tests; creative work.

7 (2) (*Not offered in 1937-38*)

Education Practicum—Lower Levels (See description below)

7 (12) and Spring (13)

Barbour, Hammack, Nordahl, Patterson, Schwob, Springston, Stone

Education Practicum—Upper Levels (See description below.)

Macdon, Barbour, Corbett, Patterson, Post, Schwob, Springston, Stone.

prerequisite: Education 147.

7 and Spring (12)

The Education Practicums

educational practicums are intended to integrate content material, educational principles and theory with practice as found in the modern progressive elementary school. Conferences are held daily by each of the training school supervisors who is responsible for a small group of 15 students. All the students enrolled in each practicum meet as a group with the principal of the training school or one of the special subject supervisors of art, music and physical education three times per week. Lectures, discussions and reports of observation and reading assignments occupy the time of these meetings. In order to see the relationship of the theory under discussion and actual school practices, the student is required to spend two hours per week in observation under the direction of the supervisor and five hours per week in participating in the activities of the pupil-group under the direction of the principal. This participation takes the form of induction into teaching currently with the mastery of fundamental processes and techniques. Considerable amount of the credit in the practicums is not for content material ordinarily found in education courses but is included under this because of its very close relationship in use. For evaluating credits the content of each practicum is distributed as follows: educational methods, 5 units; educational principles and psychology of learning, 3 units; mental hygiene, 1 unit; health and physical education, 2 units; practice teaching, 2 units.

A group of courses taken at this or another college will not be recognized as a substitute for the practicums. Credit for such courses may be submitted to the Dean of Education to ascertain if it will reduce in any way the total requirements.

The student should register for his first practicum course at the beginning of his junior year or as soon thereafter as he can qualify. Assignment to supervisor-groups and to participation will be made by the principal of the training school at the time of registration. Not more than 30 full-time participants in the lower level nor more than 45 full-time participants in the upper level may be registered in any one semester.

160 Commercial Education

Aims, objectives and procedures in commercial education. A study of curricula, together with a consideration of the content of commercial subjects; tests applicable to commercial teaching.

Fall (2)

161 Junior Business Training

The methods and content of the course in the elements of business training as offered in the junior high school. Not open for credit for those who have taken Secretarial Training 3A.

Spring (2)

163 Stenography

Methods and content of courses in stenography. Prerequisites: Secretarial Training 5A-5B, 6A.

Fall (2)

164 Bookkeeping

Various types of bookkeeping method, with considerable study of content.

Fall (2)

165 Typewriting

Methods in typewriting and office procedure. Prerequisite: Secretarial Training 1A.

Spring (2)

170 Administration of a Visual Instruction Program

The service program of a visual instruction center is studied as a collection, selecting, organizing and distributing center for classroom illustrative materials; a teacher training and advisory bureau in the technical and correct use of visual aids; a photographic production laboratory for making current and local illustrative materials for the curriculum; a testing division for evaluating visual equipment, standardization and upkeep of same; a center for correlating and integrating the school program with opportunities offered by other community educational institutions and organizations; an advisory department for supervising school film productions and for instructing teachers and students in the art of photography and appreciation of photoplays.

This course is given at the visual education center of the San Diego schools and the enrollment is limited to students who have made previous arrangements with the head of the Education Department and with the instructor.

Fall and Spring (2)

Educational Problems

Education Staff
(Dean of Education in charge)

course for senior students in teacher training who have shown ability to work independently on educational problems. Admission only by consent of the staff. Credit and hours to be arranged.

Autumn and Spring (1-3)

English

Upper division preparation for the liberal arts major in English and the junior certificate: English 1B-2 or 3 and six units from 52A, 53A, 54A, 55A, 56A, 56B.

Liberal arts major (upper division): 24 units in upper division English must be selected and arranged under supervision of the department. Not more than four units may be in composition. A reading knowledge of German or French.

LOWER DIVISION COURSES

Freshman English

Adams, Trail

Elements of composition, including drill in grammar and usage, exercises in vocabulary building and careful reading, and an introduction to the principles of effective writing.

Autumn and Spring (1)

Freshman English Adams, Dickhaut, Keeney, Trail, F. D. Walker
Writing and composition. Reading chosen from essay material of English literature and America since 1850. Composition stressing exposition. Prerequisite: English 1A or equivalent (as indicated by Subject A test or credit from another college).

Autumn and Spring (3)

Sophomore English

F. D. Walker

Writing and composition. Reading from field of biography and memoirs. Composition stressing personal narrative and informal essay. Prerequisite: English 1B.

Autumn and Spring (3)

Sophomore English

Adams, Dickhaut

Writing and composition. Reading from contemporary periodical literature. Composition stressing article writing of varied types. Prerequisite: English 1B.

Autumn and Spring (3)

4B Great Books

Outcalt

Survey of books and bodies of literature that are significant sources or expressions of European and American culture. These include the Hebrew Bible, Greek epic and tragedy, Norse eddas, and other literature of religious and communal character; and highly significant masterpieces of poetry and prose by great authors down to the nineteenth century.

One course (3-3)

10 Recreational Reading

Dickh

Development of personal tastes for leisure-time reading through lecture and oral or written reports. May be taken a second time with new material.

Fall and Spring (1)

52A-52B Types of Literature

Out

Semester I: Introduction to the study of lyrical and narrative poetry; origin and elements of poetry; typical poems. Semester II: Introduction to the study of dramatic poetry and prose, the essay, novel and short story; elements, principles and characteristics; examples.

Year course (3-3)

56A-56B Survey of English Literature

Kee

The most important masterpieces of English literature from the Anglo-Saxon period through the Victorian age.

Year course (3-3)

UPPER DIVISION COURSES

101 Modern Prose Fiction

Dickh

Recent and contemporary fiction in novel and short story, including British, American, and a brief selection from the Continental.

Spring (3)

106A, 106B Advanced Composition

Dickh

A laboratory course in modern prose writing. Semester I: Artistic narrative, with description. The short story. Semester II: The essay, the magazine article, criticism. Outside readings. Prerequisite: one year college composition. Either semester may be taken first.

Fall, Spring (2, 2).

107A, 107B Advanced Composition

Ad

These courses are designed for students who wish to do independent work in composition. The discussions will consider the problems of effective expression as exhibited in the work of the members of the club. Prerequisite: Same as for 106A, 106B. Either semester may be taken first.

Fall, Spring (2-2) (Not offered in 1937-38.)

110 Recreational Reading

Dickh

An advanced course similar in character to English 10.

Fall and Spring (1)

116 Elizabethan Literature

Ad

An introduction to the principal writers from Wyatt and More to Jonson and Bacon. Approximately equal attention is given to the dramatic poetry, the prose, and the drama of the period.

Fall (3) (Offered in 1938-39 and alternate years.)

117 Shakespeare

Out

Extensive reading of Shakespeare's plays, with special attention to a select group of the comedies and another of the tragedies. Lectures and special reports.

Spring (3)

Makers of Eighteenth Century Literature **Keeney**
Defoe, Swift, Johnson, Goldsmith, Fielding, and their contemporaries as interpreters and teachers of their age.

ig (3)

The Romantic Poets **Adams**
Study of early nineteenth century poetry; the work of Wordsworth, Coleridge, Byron, Shelley, and Keats, in relation to the thought of the revolutionary period.

ig (3)

Poetry of the Victorian Period **F. D. Walker**
Study of Tennyson and Browning and their contemporaries and successors, relating English poetry to nineteenth century life and thought.
(3) (Offered in 1937-38 and alternate years.)

Nineteenth Century British Prose **Dickhaut**
Lectures and discussions of Victorian prose masters, emphasizing Lamb, Carlyle, Macaulay, Mill, Thackeray, Newman, Ruskin, Arnold, Huxley, and Pater.
(3) (Not offered in 1937-38)

Modern British Prose **Dickhaut**
Continuation of Nineteenth Century British Prose, including the lectures of Shaw and the essays of Beerbohm, Belloc, Chesterton, Gosse, Galsworthy, Inge, Stevenson, Tomlinson, Wells, and others.
ig (3)

American Literature **Outcalt**
Survey of American literature with its backgrounds from the beginning of the 19th century to about 1890. Cooper, Melville, Hawthorne, Poe, Emerson, Thoreau, Whitman, Mark Twain and others are considered in relation to national development. Lectures, discussions and reports.
(3)

American Literature **F. D. Walker**
Survey of American literature with its backgrounds, covering the period from about 1890 to the present time. Extensive reading in recent contemporary poetry, fiction, etc. Lectures, discussions and reports.
ig (3)

The Development of the English Novel **F. D. Walker**
History of the English novel from the beginnings to Hardy. Extensive reading of novels with reports. Lectures and discussion.
(3) (Offered in 1938-39 and alternate years)

Medieval Literature **Keeney**
Literature of the fourteenth century, especially the verse romances and the poetry of Chaucer.
(3)

Milton and Dryden **Adams**
Lectures in poetry of the seventeenth century, relating it to the thought and the social life of the age.
(3) (Offered in 1937-38 and alternate years)

Speech Arts

LOWER DIVISION COURSES

1A Fundamentals of Public Speaking

Training in fundamental processes of oral expression; method obtaining and organizing material; outlining principles of attention delivery; extemporaneous speaking and open forum debating; practical construction and delivery of type forms of speech.

Fall and Spring (3)

1B Extemporaneous Speaking (or Forum Speaking)

Practice in extemporaneous speaking on subjects of current interest national and local, with stress laid on the organization and delivery of content material. Forum discussion will provide speakers with opportunity of assembling facts quickly to meet such questions as audience situation might demand.

Spring (3)

1C Oral Interpretation

The oral interpretation of longer literary selections, both in poetry and prose; a fundamentals course designed for the beginning student in drama as well as those majoring or minoring in English literature.

Fall (3)

1D Advanced Interpretation

Emphasis placed on stage poise and grace with adequate attention to variations in the presentation of literary selections. Much opportunity is provided for individual and group creative work. No prerequisite. Class limited.

Spring (3)

20 Corrective Speech

Corrective laboratory training prescribed on the basis of vocalization tests made on Edison machine. Required of education majors who fail to meet speech requirements test. Also recommended for those who desire public careers.

Fall and Spring (1) (9 weeks' course)

55A-55B Dramatic Production

A course for first and second year students in which, through participation, they acquire an understanding of certain dramatic periods and styles studied in English literature. Individual and group expression coordinated and developed in production of scenes, acts, and plays—a fundamental drama course. No prerequisite.

Year course (3-3) (Offered in 1937-38 and alternate years)

55C-55D Dramatic Expression

A course designed to help first and second year students realize and develop their own abilities for expressing character and life. Coordination of thought, voice, and body, acquired through interpretation, impersonation, and acting of contemporary situations, creative and stage drama. History, technique, and use of dramatic expression studied.

formal participation by all. Best work given public performances. fundamental course.

var course (3-3) (Offered in 1938-39 and alternate years)

UPPER DIVISION COURSES

1B Argumentation and Debate

Pfaff

obtaining and organizing of evidence and the construction and use of the brief; study and discussion of current issues; the presentation of formal and informal debates. Attention to intramural and intercollegiate debating.

credit for students having taken 1B previous to 1934-1935.

ring (3)

5A-155B Advanced Dramatic Expression

Jones

for upper division students training for leadership in different fields as well as drama. More advanced forms of dramatic expression studied; creative abilities in interpretation, writing, acting, and stagecraft developed in relation to various subjects and activities conducted through individual research projects, group discussion and participation. Original work encouraged. Prerequisite: A fundamental drama course.

var course (3-3) (Offered in 1937-38 and alternate years)

5A-156B Advanced Dramatic Production

Jones

the study of more difficult dramatic types and periods in the production of poetic and prose literature of different countries. Arrangement, organization, creation, direction and presentation of class room, recreational and other forms of performances. Practical participation and demonstration. A course designed for students majoring in other subjects as well as the theater arts.

var course (3-3) (Offered in 1938-39 and alternate years)

Journalism

(See page 91.)

Foreign Languages

for a background for advanced work in Romance languages, students are advised to include in their electives as many as possible of the following courses: Geography 118, History 121A, 121B, 145A, 145B, Aesthetics 50 or 150; English 4A, 4B, 52A, 52B, 101, 116, 117, 118, 119, 121, 126, 143, 160.

French

LOWER DIVISION COURSES

lower division preparation for the liberal arts major in French: French B-C-D; either German A-B or Spanish A-B; History 4A-4B.

liberal arts major in French: Twenty-four units of upper division work, of which at least eighteen must be in French, and of which a maximum of six may be in related subjects, arranged in consultation with the chairman of the department. At least a C average in upper division major courses.

A-B Elementary**E. M. Brown, Phil**

Intensive study of French grammar and syntax; daily written work discussed in class; class drill in conversational idiom and pronunciation; reading with oral discussion and résumés; dictation; introduction to temporary prose writers. Credit not given for French A unless followed by French B. Students who have had one year of French in high school should register for French A, but will receive only two units of credit. Those who have had two years of French in high school should register for French B, in which case they will receive four units of credit.

Year course (5-5)

C-D Intermediate**E. M. Brown, L. P. Brown, Phil**

Reading and composition; study of standard prose as a basis for class work, collateral reading with résumés and written reports in French; dictation. Individual conferences. Prerequisite: French B or three years of high school French, or its equivalent. Students with credit for four years of high school French, or its equivalent, should enter French D.

Year course (3-3)

SC Scientific**L. P. Brown**

Reading taken from the fields of chemistry, physics, medicine, zoology, biology, etc. Outside readings of books and periodicals. Oral and written reports. Prerequisite: French B or equivalent.

Fall (2) (Offered in 1937-38 if registration warrants)

UPPER DIVISION COURSES**101A-101B Conversation and Composition****E. M. Brown**

Prerequisite: French D, or its equivalent, with grade of C.

Year course (3-3) (Offered in 1938-39)

105A-105B. Modern French Drama**E. M. Brown**

Plays of Musset, Scribe, Augier, Dumas fils, Pailleron, Brieux, Ibsen, Maeterlinck, Rostand, and others read and discussed as to subject matter and technique. Outside reading and reports. Prerequisite: French D, or its equivalent, with grade of C.

Year course (3-3)

107A-107B Eighteenth Century Literature**L. P. Brown**

The philosophical ideas of the century as contained in the works of Montesquieu, Voltaire, and Rousseau. The Encyclopédistes. Prerequisite: French D, or its equivalent, with a grade of C.

Year course (3-3) (Offered in 1940-41)

110A-110B Modern French Novel**E. M. Brown**

The French novel from Victor Hugo to the present day, including such authors as: Hugo, Dumas, Stendhal, Balzac, Flaubert, Loti, Anatole France, Bourget, Bordeaux, Bazin, Barres, Romain Rolland, A. G. Marcel Proust, and others. Class and outside reading and reports. Prerequisite: French D, or its equivalent, with grade of C.

Year course (3-3) (Offered in 1939-40)

A-111B Seventeenth Century Dramatic Literature E. M. Brown
 Reading in class of plays of Molière, Corneille, and Racine. Outside
 readings and lectures on the background of the seventeenth century in
 France. Prerequisites: French D, or its equivalent, with a grade of C,
 and upper division standing.

var course (3-3) (Offered in 1938-39)

C Comprehensive Reading and Survey Course The Staff
 Designed to fill up the gaps in the reading done in courses. Class meet-
 ings once a week for guidance, reports, and quizzes. Required of all seniors
 majoring in French.
var course (3)

German

LOWER DIVISION COURSES

B Elementary H. K. Walker
 Pronunciation, reading and grammar, with practice in simple conversa-
 tion, narration and description, both oral and written. Credit not given
 for German A unless followed by German B. Students who have had
 one year of German in high school should register for German A, but
 will receive only two units of credit. Those who have had two years
 of German in high school should register for German B, in which case
 they will receive four units of credit.
var course (5-5)

D Intermediate H. K. Walker
 Reading and composition; study of standard prose as basis for class
 work; collateral reading with written reports; German conversation,
 with the texts read as a basis; dictation. Prerequisite: German B or
 three years of high school German, or its equivalent. Students with credit
 for four years high school German, or its equivalent, should enter
 German D.
var course (3-3)

SC-SD Scientific Messner
 Fall semester. Readings in scientific reader on chemistry, physics, etc.;
 occasional written reports on scientific subjects read outside of class;
 sight reading. Spring semester. Readings in special scientific or tech-
 nical works; weekly written reports required; sight reading. Prerequi-
 site: German SC-German B with a grade of C or three years of high
 school German; German SD-German C with a grade of C or four years of
 high school German.
var course (2-2)

Spanish

Lower division preparation for the liberal arts major in Spanish: **Spanish**
B-C-D; French A-B; History 4A-4B.

Liberal arts major in Spanish: Twenty-four units of upper division work,
 of which at least eighteen must be in Spanish, and of which a maximum
 of six may be in related subjects, arranged in consultation with the chair-
 man of the department. At least a C average in upper division major
 courses.

LOWER DIVISION COURSES

A-B Elementary

L. P. Brown, Phil

Intensive study of Spanish grammar and syntax, with daily writing work; class drill in conversational idiom and pronunciation; reading and oral discussion and résumés; dictation; introduction to contemporary prose writers. Credit not given for Spanish A unless followed by Spanish B. Students who have had one year of Spanish in high school should register for Spanish A, but will receive only two units of credit. Those who have had two years of Spanish in high school should register for Spanish B, in which case they will receive four units of credit.

Year course (5-5)

C-D Intermediate

Phil

Reading and composition; study of standard prose as basis for class work; collateral reading in prose and drama, with written reports. Spanish; dictation. Class work conducted mainly in Spanish. Individual conferences. Prerequisite: Spanish B or three years of high school Spanish, or its equivalent. Students with credit for four years of high school Spanish, or its equivalent, should enter Spanish D.

Year course (3-3)

1-2 Elementary

L. P. Brown

A course similar to Spanish A-B, but meeting only three times a week and giving only three units of credit a semester. Intended for those who do not wish to major in Romance languages and for those who wish to go more slowly than is possible in a course meeting five times a week. Students who have had one year of Spanish in high school should register for Spanish 2. Credit not given for Spanish 1 unless followed by Spanish 2.

Year course (3-3)

3-4 Intermediate

A continuation of Spanish 1-2. Reading of Spanish prose; composition and outside reading in Spanish 4, with reports. Students with two years of high school Spanish should register for Spanish 3 or Spanish B. Those with three years should register for Spanish C.

Year course (3-3)

UPPER DIVISION COURSES

101A-101B Conversation and Composition

Phil

Prerequisite: Spanish D, or its equivalent, with grade of C.

Year course (3-3)

102A-102B Introduction to Spanish Classics

L. P. Brown

Reading from several types of classical literature. Lazarillo de Tormes and other novels of Roguery; selections from Don Quixote, and Cien Mejores Poesias Castellanas; one drama each from the works of Lope de Vega, Calderon, Alarcon, and Moreto; collateral reading and reports. Prerequisite: A grade of C in Spanish D or permission from the instructor.

Year course (3-3) (Offered in 1938-39)

A-104B Spanish-American Literature **Phillips**
 survey of the whole field of Spanish-American literature during the colonial, revolutionary and modern periods, with special attention during the second semester to the literature of one country. Collateral reading reports. Prerequisite: A grade of C in Spanish D or permission from instructor.

Four course (3-3) (Offered in 1940-41)

A-105B Modern Spanish Drama **L. P. Brown**
 development of the drama of Spain from the beginning of the nineteenth century to the present time. Prerequisite: A grade of C in Spanish D or permission from the instructor.

Four course (3-3) (Offered in 1939-40)

A-110B Novel and Short Story in Spain **L. P. Brown**
 development of the novel and short story in Spain from 1830 to the present time. Prerequisite: A grade of C in Spanish D or permission from the instructor.

Four course (3-3)

Comprehensive Reading and Survey Course **The Staff**
 designed to fill up the gaps in the reading done in courses. Class meetings once a week for guidance, reports, and quizzes. Required of all seniors majoring in Spanish.

Reading (3)

General Language

LOWER DIVISION COURSES

Latin and Greek Word Derivation **L. P. Brown**
 general and elementary course in philology. A study of Latin and Greek roots of most frequent occurrence in English, and of the English words derived from them. Not open to first semester freshmen.

Reading (2)

GEOGRAPHY

upper division preparation for the liberal arts major in geography and the junior certificate: Geography 1, 2, 3, and Geology 1A-1B. Recommended: A reading knowledge of French or German.

liberal arts major (upper division): Twenty-four units of upper division work in geography or 18 units in geography and six units in related subjects arranged in consultation with the chairman of the department.

LOWER DIVISION COURSES

Introduction to Geography; Elements **Clark, Storm**
 the fundamental principles of geography, the distribution of life upon the earth, and the effects of environment upon the activities of man. Climate, land forms, bodies of water, natural resources, and location in their relation to human activities. Open to all students.

Autumn and Spring (3)

**2 Introduction; Natural Regions and the Distribution of
Population and of Cultures** Clark, Sto

The application of the fundamental principles of geography to the various regions of the world. Comparison of regions with regard to different stages of development. Prerequisite: Geography 1.

Fall and Spring (3)

3 Elementary Meteorology Bl

An elementary study of the earth's atmosphere and changes in it which produce our weather and influence human affairs. Special attention given to local conditions, instruments, and records.

Spring (3)

12 Geography of California Sto

The main physiographic regions of California and the cultural landscapes developed by the successive cultural groups. Prerequisite: Geography 1.

Spring (2)

13 Regions: Advanced Cl

Special regions selected from Africa, Australia, Oceania, and Polynesia. Prerequisites: Geography 1 and 2.

Fall (2)

UPPER DIVISION COURSES

116 Geography of South America Cl

The climate, topography, and natural resources of the South American countries; the effect of those physical factors upon the economic, commercial, and racial problems of the different nations. Prerequisite: Geography 1.

Spring (3)

117 Geography of Northwestern Europe Cl

The physical environment of each of the nations of the area and their reactions to physical environment in their political and social relations. Importance of the countries in manufactures. This course is planned to familiarize the student with modern European countries that he can read current periodical literature with understanding and interest. Prerequisite: Geography 1.

Fall (3)

118 Geography of the Mediterranean Area Cl

A treatment of Southern Europe, Western Asia, and Northern Africa as a unit and a comparison of the land forms, climates, types of native vegetation, cultivated crops, industrial status, and present world position; also the effect of geographic factors on the history of the area. Prerequisite: Geography 1.

Spring (3)

121 Geography of North America Sto

The natural regions of North America, their formation and economic and historical development. Prerequisite: Geography 1.

Fall (3)

Geography of Asia

Storm

cultural regions of Asia, their physical environment, and historical development. Prerequisite: Geography 1.

ing (3)

Geography of the San Diego Area

Clark, Storm

ected individual rural and urban field work of San Diego area including the mapping of a small area and its geographic interpretation. Prerequisites: Geography 1, 2, and Geology 1A. Open only to liberal arts geography majors.

1 (2) (*Offered in 1937-38 and alternate years*)

Economic Geography

Storm

world-wide survey of the raw materials of world trade; their production and distribution as related to the major geographic regions of the world. Prerequisites: Geography 1 and 2.

1 (3)

GEOLOGY

Department requirement in Geology for liberal arts major in Physical Science includes in addition to Geology 1A-1B, the completion of: Chemistry 1A-1B, Mathematics 3A; Physics 1A-1B-1C-1D or 2A-2B; 3A-3B.

Students preparing for advanced work in Geology may substitute Industrial Arts 21 for Mathematics 3A.

French or German, Surveying 1A-1B and Geology 21A-21B are recommended.

LOWER DIVISION COURSES

General

Brooks

composition and distribution of earth materials, and their modification through mechanical and chemical processes of change. Three lectures and one three-hour laboratory period weekly with related field study during the semester.

1 (4)

Historical

Brooks

ories of earth origin, and the evolutionary history of the earth as evidenced through rock and fossil records. Consideration of the geologic history of selected regions. Three lectures and one three-hour laboratory periods weekly, with arrangement for field study and conference during semester.

ing (4)

Physiography

Brooks

study of the surface features of the earth with classification of the variety of land forms according to their cause and type. The fundamental meaning of scenery, with frequent illustration from local conditions from the college collection of topographic maps. Two lectures and discussion hour weekly. Open to all students.

ing (3)

21B Mineralogy

Brooks

study of the common minerals and rocks. Use of the blowpipe and simple chemical reagents but with emphasis upon sight determination. Prerequisite: Geology 1A and high school chemistry, or equivalents.

1 course (3-3)

UPPER DIVISION COURSES

100 Physical Geology

Bro

The evolution and description of the structural and topographical features of the earth. Faulting, folding, and orogenic forces with practical illustrations from the North American Continent. Lectures, discussions, and occasional field trips. Prerequisite: Geology 1A-1B.

Fall (3)

101 Geologic Problems

Bro

Reconnaissance of adjacent areas with elementary mapping; or direct reading from a prepared syllabus introducing the several phases of geological literature; or selection and preparation of material for the museum collections. Prerequisite: Geology 1A-1B. Registration subject to approval of instructor.

Spring (1-4)

GERMAN

(See Foreign Languages)

HEALTH AND PHYSICAL EDUCATION

(See Physical Education)

History

Lower division preparation for the liberal arts major in history and the junior certificate: History 4A-4B, or 8A-8B, and either Political Science 1A-1B or Economics 1A-1B. No student shall enroll in more than one lower division history course during a semester. Students who wish to major in history and who have had less than two years of European history in high school must take History 4A-4B.

Liberal arts major (upper division): Twenty-four units in upper division courses in history to be arranged in consultation with the chairman of the department. The student must, in his senior year, enroll in History 199.

LOWER DIVISION COURSES

4A-4B History of Modern Europe

Les

Development of European society and institutions from about 1500 A.D. to the present. Year course (3-3)

8A-8B History of the Americas

Nasa

A general survey of the history of the western hemisphere from the discovery to the present time. Emphasis on the process of planting European civilization in the new world, the international contest for the continents, the wars for independence, the development of the American republics, and their relations with each other and with the rest of the world. Based on H. E. Bolton's "Syllabus of the History of the Americas."

Year course (3-3)

UPPER DIVISION COURSES

111A-111B Ancient History

Les

Semester I: Social, economic, political, and cultural development of the Greek states with emphasis upon the growth of democracy, attempts

federal union, imperialism, and Hellenism. Semester II: Roman history from the earliest times to the beginning of the medieval period; missions of Roman imperialism and the main constitutional, economic, social, and religious developments in the republic and the empire.
Prerequisite: History 101 or course (3-3)

A-121B Medieval History **Lesley**
General survey of European politics and the cultural development of the Middle Ages; the antecedents of the Renaissance; development of medieval life and institutions, feudalism, the church, the universities, and intellectual tendencies. The rise of towns, of new nations, and of new thought, especially in the twelfth and thirteenth centuries. Period covered: 500-1500 A.D.

Prerequisite: History 101 or course (3-3) (Not offered in 1937-38)

A-145B Europe Since 1789 **Lesley**
Revolutionary era; conflict of reaction and liberalism; development of nationalism, with special attention devoted to the unification of Germany and Italy; events leading up to the World War and contemporary problems of Europe resulting from that conflict.

Prerequisite: History 101 or course (3-3) (Not offered in 1937-38)

A-146B Diplomatic History of Europe **Lesley**
European diplomatic and colonial policies since 1648, with detailed attention to the basic factors in international organization and procedure. During the second semester special emphasis upon the period 1870-1914.

Prerequisite: History 101 or course (3-3)

A-151B England Since the Norman Conquest **Nasatir**
Survey of political and constitutional development in England since 1066, stressing the transition from medieval to modern England, Tudor absolutism, the struggle for self-government under the Stuarts, the rise and development of present-day political and social institutions.

Prerequisite: History 101 or course (3-3)

A-156B History of British Expansion **Nasatir**
Study of the growth, development, and break-up of the older overseas empire; the beginnings of the newer empire after 1783; the rise, federalism, and imperial relations of the British Commonwealth of Nations; the open colony system; India under British rule; and British expansion in Africa and the Pacific; development of British mandates.

Prerequisite: History 101 or course (3-3) (Not offered in 1937-38)

South America Since Independence **Nasatir**
The republics of South America. Attention directed to the development of nationality in South America, the struggles for political stability, the exploitation of resources, diplomatic and commercial relations with the United States, and other international problems of South America. Survey of present-day conditions, political, economic, and social.

Prerequisite: History 101 or course (3)

Mexico and the Caribbean Countries **Nasatir**
The plan in general as outlined in History 161. Special attention to the relations of the United States with these countries, and to the recent developments in Mexico.

Prerequisite: History 101 or course (3)

171A-171B The Rise of the American Nation

Leon

Semester I. English colonization in North America and the development of colonial institutions and politics. Semester II. The revolutionary movement and the Revolutionary War; the establishment of the government under the Constitution to the close of the War of 1812.

Year course (3-3) (Not offered in 1937-38)

173A-173B The Expansion of the United States

Leon

The rise of Jacksonian Democracy; territorial expansion and the Mexican War; the slavery controversy; the Civil War, and reconstruction; growth and progress of the United States to the World War.

Year course (3-3)

199 Special Course for Advanced Students

Leon

Required of all students with a history major in the liberal arts curriculum and to be attended during the senior year. Other students may be admitted with the permission of the instructor.

Spring (2)

Hygiene

1 Personal and Civic (Men)

C. E. Peters

An informational course in personal and community hygiene. A study of social hygiene and the hygienic principles of living. Special speakers from the County Medical Association on subjects of vital interest enrich the offerings of this course. It is especially desirable that this course be taken in the freshman year.

Fall and Spring (2)

2 Personal and Civic (Women)

An informational course reviewing the principles underlying the improvement and preservation of personal and civic health. Social hygiene in relation to the practical problems of young women and prospective homemakers. A detailed study of the laws and procedures in local civic health matters of particular interest to women. Required of all freshmen who are candidates for junior standing or the degree in the liberal arts curricula.

Fall and Spring (2)

Industrial Arts

3A Mechanical Drawing

Walli

Use and care of drafting instruments, lettering, orthographic projection, developments, intersections, tracing. Drafting room six hours per week. Required of all engineering students who have not had one full year of drafting work in senior high school.

Spring (2) (Only one unit will be counted in satisfying the A.B. degree requirements)

21 Descriptive Geometry

Walli

Fundamental principles of descriptive geometry and their application to problems of engineering. Lectures and drafting. Prerequisites: Industrial Arts 3A or equivalent, and sophomore standing.

Fall (3)

Machine Drawing **Walling**
 sign and drawing of simple machine parts with emphasis upon the
 duction of standard drawings. Lectures and drafting. Prerequisite:
 ustrial Arts 21.

ing (3) (Only two units will be counted in satisfying the A.B. degree
 uirements)

Materials of Construction **Walling**
 ural properties and adaptability of materials used in engineering.
 tures. Prerequisite: Sophomore standing.

Elements of Electrical Engineering **Walling**
 hematical and descriptive consideration of electrical circuits together
 h a general survey of the electrical industry. Lectures. Prerequisite:
 hematics 4A.

Elements of Heat Power Engineering **Walling**
 adamental consideration of fuels, combustion, steam, boilers, furnaces,
 oneys, steam engines, steam turbines and auxiliaries, internal com-
 tion engines. Lectures. Prerequisites: Mathematics 3B, Physics 1B.
 narily for engineering students other than mechanical or electrical.

JOURNALISM
 ver division preparation in journalism for advanced work and the
 or certificate: History 4A-4B, or 8A-8B; Psychology 1A-4A; English
 position, 4 units; Secretarial Training 2A; Political Science 1A-1B or
 nomics 1A-1B; Journalism 51A-51B. Recommended: English Litera-
 e, 6 units; Speech Arts 1A-1B; Sociology 50; Economics 18A-18B;
 rnalism 53A-53B.

the profession of journalism introductory work in the fields of litera-
 e, history, political science, social science, economics, the arts, etc., is
 mended.

aim in the specialized courses in journalism is to offer introductory
 ning in the principles and practices of journalistic writing only after a
 l foundation in correct speaking and writing of English has been laid.
 etical training in news reporting and editing for student publications
 for the daily press is emphasized.

LOWER DIVISION COURSES

51B News Gathering and Reporting **Trail**
 dy of news sources and types; practice in news writing; newspaper
 nization; excursions and special lectures. Course planned for sopho-
 es who have had English 1A-1B, with high school journalism or
 valents.

53B Applied Journalism **Trail**
 lit earned for editorial or other staff work throughout a full semester
 student publications such as *The Aztec*, *El Palenque*, *Del Sudoeste*.
and Spring (1 to 3-1 to 3)

UPPER DIVISION COURSES

100 News and Manuscript Editing

Tr

Practice in copy reading, proof reading, headline writing, and newspaper makeup. Study of editorial pages. Prerequisite: Journalism 51A-51B or equivalent in composition.

Spring (3)

153A-153B Advanced Journalism Practice

Tr

Upper division work of the same type as that in 53A-53B, but with advanced requirements.

Fall and Spring (1 to 3-1 to 3)

NOTE.—Not more than six units in all will be given for journalism practice on student publications.

LIBRARY SCIENCE

10 Use of the Library

J. P. St

The chief object is to give a working knowledge of some of the resources of the library which every teacher and student should understand—decimal classification, the card catalog, periodical indexes, and the most important reference books, together with some instruction in the preparation of bibliographies. The course will be a requirement of those added to the library's staff of student assistants, although it will not prepare a student to become a librarian.

Fall and Spring (1)

MATHEMATICS

Lower division preparation for the liberal arts major in mathematics and for the junior certificate: Mathematics 3A-3B, 8, 4A-4B with an average grade of C or better; Physics 1A-1B or 2A-2B. Two or more of the following are recommended: Astronomy 1, Economics 1A-1B, 2, French A-B, German A-B, Industrial Arts 21, Surveying 1A.

Liberal arts major (upper division): Twenty-four units including at least eighteen in upper division mathematics, the others being selected from Chemistry 111A-111B, 144, Economics 140, Education 112, Physics 105B, 112 and other approved courses. The major should be arranged in consultation with the chairman of the department and completed with a grade of C or better.

LOWER DIVISION COURSES

A, B, C, D, E, F, G, Introductory Mathematics

Livingst

Instruction and supervised study in elementary mathematics. Students who have taken these courses previously may take them for review, otherwise for the credit indicated. Courses A and D are equivalent to one and one-half years of algebra in high school; A, D and G to two years.

Students regularly enrolled shall be expected to complete at least one course for credit; except that students who begin with an extensive review may withdraw without penalty before the time of the mid-term report.

A. Algebra to quadratic equations (2).

B. Plane geometry (2).

C. Plane trigonometry (2).

Algebra beyond quadratics (2).
Solid geometry (2).
Spherical trigonometry (1).
Intermediate algebra (2).

Fall and Spring

Elementary Analysis

Livingston

A general course including topics for algebra, trigonometry, analytic geometry and calculus. Of interest to students not having time for the one or three-year courses in analysis. Either 1A or 1B may be taken for credit, the prerequisite being advanced algebra in high school, or Mathematics D and G. Applications are made to many fields.

The differentiation and integration of algebraic, exponential and logarithmic functions, with selected topics in college algebra.

1 (3) (Not offered in 1937-38)

The usual course in plane trigonometry, with selected topics in college algebra and analytic geometry.

2 (3)

3B Analytic Geometry and Calculus Livingston, Walling, C. E. Smith

Analytic geometry and differential calculus, together with an introduction to the integral calculus. Prerequisites: Trigonometry and advanced algebra in high school, with recommended grades, or permission of the department.

3 (3-3)

4B Intermediate Calculus

Gleason, Livingston

Integration, partial differentiation, infinite series and multiple integrals. Prerequisite: Mathematics 3A-3B. Solid geometry and college algebra recommended.

3 (3-3)

College Algebra

Gleason

Complex numbers, determinants, partial fractions and elementary topics in the theory of equations. Prerequisites: trigonometry and advanced algebra in high school, or equivalent.

4 (2) Fall and Spring

Intermediate Calculus

Livingston, Gleason

Substantially the same as 4A-4B. Prerequisite: Mathematics 3A-3B. Solid geometry and college algebra are recommended.

5 (5)

Advanced Calculus and Differential Equations

Livingston, Gleason

Selected topics from advanced calculus with major attention to differential equations. Prerequisite: Mathematics 14A or 4A-4B.

6 (5)

UPPER DIVISION COURSES

105 College Geometry

Livingston

An extension of the high school course in plane geometry, dealing largely with triangles and circles. Several new procedures, including inverses, are introduced. Prerequisites: Plane geometry and trigonometry.

Fall (3)

106 Projective Geometry

Livingston

Concurrence of lines, collinearity of points and other properties of figures not altered by projections; construction and study of ellipses, hyperbolas and parabolas by means of projections. Prerequisites: Plane geometry and trigonometry.

Spring (3) (Not offered in 1937-38)

111 Theory of Equations

Gleason

General solutions of algebraic equations; approximate numerical solutions; applications. Prerequisite: Mathematics 3A-3B and 8.

Fall (3)

112 Analytic Geometry of Space

Gleason

Planes, lines, and quadric surfaces. Prerequisite: Mathematics 3A-3B and 8.

Spring (3)

118—Advanced Calculus

Livingston, Gleason

Selected topics in advanced calculus, exclusive of differential equations. Prerequisite: Mathematics 4A-4B, or 4A with 4B taken concurrently.

Spring (2)

119 Differential Equations

Livingston, Gleason

Ordinary differential equations of first and second order, with applications. Prerequisite: Mathematics 4B or permission of instructor.

Spring (2)

140 Statistical Theory and Method

Statistical theory and method from the mathematical standpoint; applications in social and natural science. Prerequisite: Mathematics, 4A-4B, Economics 1A-1B and senior standing.

Spring (3) (Not offered in 1937-38)

199A-199B Special Study

The State

An opportunity is offered for advanced work in algebra, geometry and calculus; or for study of vector analysis, theory of numbers, or historical mathematics. Adapted to the needs of individual students. Prerequisite: at least six units of upper division courses in mathematics with an average grade of B, or senior standing.

Fall or Spring (1 to 3, each semester)

Music

Candidates for a teaching credential in music should refer to the statement "Admission to Upper Division Teacher Training" on page 20 of this catalog to the other degree requirements on that page and those following.

riculum for the A.B. Degree with a Special Secondary credential in music is on page 32.

Lower division preparation for the liberal arts major in music and for junior certificate: Music 1A-1B, 4A-4B; and 2 units of electives in music; Aesthetics 1A-1B. The electives in music in both lower and upper division must include at least 6 units in Applied Music (study of voice, an instrument), of which at least 3 units must be in piano. See page 52 for regulations regarding Applied Music.

For information regarding majors and minors in music, and other details found here, consult the Music Education Adviser.

For courses in Appreciation and History of Music, see Aesthetics, page 52.

LOWER DIVISION COURSES

Music Reading and Ear Training—Fundamentals of Music

L. D. Smith

Elementary music theory; scale construction; drill in music reading with syllables and with words; ear training, elementary music dictation; the elements and materials of music. Basic course used as prerequisite for all advanced music work and for the courses in music education. Text—Gehrken: Fundamentals of Music.

1 and Spring (2)

Music Reading and Ear Training

L. D. Smith

Interval and rhythmic dictation, rhythmic writing, sight singing with Latin syllables and with words. Text—Wedge: Ear Training and Sight Singing. Prerequisite: Music 1A, or the equivalent.

Spring (2)

1D Advanced Music Reading and Ear Training

L. D. Smith

Interval and rhythmic dictation, rhythmic writing, and sight singing in one and three parts. Text—Wedge: Advanced Ear Training and Sight Singing. Prerequisite: Music 1A-1B.

1 or course (2-2)

4B Elementary Harmony

Beidleman

Scale construction, intervals, chords, structure, modulation, through various types of seventh chord. Especial attention is paid to the keyboard application of problems in harmonization, transposition, and modulation. Prerequisites: Music 1A-1B, or the equivalent, and at least one year of college study. Not open to freshmen.

1 or course (3-3)

-19B Instrumental Music, Elementary

Beidleman

Basic instruction for beginners on any orchestral instruments, intended to develop a thorough theoretical and practical knowledge of the instruments, and some facility in playing them. Elementary conducting is also included. Especially intended as preparation for orchestral directing. All instruments will be available on a loan basis; others for a low rental.

1 or course (1-1)

19C-19D* Instrumental Music, Advanced

Beidler

A composite course, including:

(a) Instrumental Ensemble. The practice and performance of music for small groups of string, wind, and brass instruments. Prerequisite: A fair amount of playing ability on some orchestral instrument.

(b) Instrumental Conducting. Theory and practice, with study of materials and methods. Not open to freshmen. Prerequisite: Music 1A-1B; 19A-19B, or the equivalent.

Year course. Units: (a) alone, $\frac{1}{2}$; (b), with (a), 1.

20* Vocal Music

L. D. Sn

A general course open to all students. Mixed harmony in two, three, and four parts; voice quality; phrasing, interpretation, and enunciation considered in detail; study of song material suitable for junior and senior high school. Choral conducting.

Fall and Spring (1)

UPPER DIVISION COURSES

105A-105B Advanced Harmony

Beidler

Completion of harmonic theory; modulation, inharmonic tones, etc. Continuation of harmonic analysis, and keyboard harmony. Melody harmonizing. Prerequisite: Music 4A-4B.

Year course (3-3)

106A-106B Applied Harmony

Beidler

Including counterpoint, form and analysis, keyboard harmony, creative work, and instrumentation—theory and practice of arranging music for instrumental combinations. Prerequisite: Music 105A-105B.

Year course (3-3)

119* Instrumental Music (See Music 19)

120* Vocal Music (See Music 20)

L. D. Sn

Musical Organizations

(For music majors, credit allowed only in conjunction with Applied Music study. See below.)

11 or 111* Treble Clef (Women's) Glee Club

L. D. Sn

Membership based on competitive try-outs.

(1-1) (Not more than $\frac{1}{4}$ units may be counted toward the A.B. degree)

12 or 112* Men's Glee Club

Beidler

Membership based on competitive try-outs.

(1-1) (Not more than $\frac{1}{4}$ units may be counted toward the A.B. degree)

13 or 113* Orchestra

Beidler

(1-1) (Not more than $\frac{1}{4}$ units may be counted toward the A.B. degree)

* These courses are recorded by using letters with the number in alphabetical sequence for each semester the course is pursued, as for example Music 9A, 9B, 9C, etc.

Applied Music

Credit in Applied Music is available only for students enrolled in music classes or organizations, and is subject to special permission and arrangement. Credit is not allowed for beginning work in Applied Music. Credits: *1 unit per semester, for not less than one lesson per week, with 100 hours of practice per week, totaling at least ten hours instruction and 100 hours practice per semester. Applied Music is taken under the supervision of private teachers, subject to the approval and supervision of the music department of the college, which determines credit value and grades examination.*

ORCHESTRAL INSTRUMENTS: Music 16 or 116.* Credit for study of an orchestral instrument is granted only upon satisfactory completion of work for an equal length of time in Music 19, 119, Instrumental Music; and/or Orchestra or Band.

VOCAL MUSIC: Music 17 or 117.* Credit granted only upon satisfactory completion of work for an equal length of time in Music 20, 120, Vocal Music and/or Glee Club.

PIANO (or Organ): Music 18 or 118.* Prerequisite: The ability to play satisfactorily hymns and folk songs of the type found in the Golden Book of Favorite Songs.

Minimum attainment for completion of piano requirement in music curriculum is the ability to play at sight accompaniments such as are found in the Teachers Manuals of the Progressive Music Series, Books Three and Four.

PHILOSOPHY

LOWER DIVISION COURSES

Introduction to Philosophy Steinmetz
Elementary orientation; the persistent problems of philosophy, especially epistemology, metaphysics, and ethics; the Republic of Plato and social systems. Prerequisite: Sophomore standing, or consent of instructor.
Philosophy (3)

The Philosophy of Science Steinmetz
The problems of philosophy systematized according to the main modern divisions of science; the achievements and perplexities of scientific fields; the nature and place of values in a universe of facts. Prerequisite: Philosophy 5A, except that sophomores planning to major in natural science may be admitted without prerequisite.
Philosophy (3)

UPPER DIVISION COURSES

Advanced The Philosophy of Science Steinmetz
Same as Philosophy 5B, save that upper division students will be held to a more exacting contribution.
Philosophy (3)

These courses are recorded by using letters with the number in alphabetical sequence for each semester the course is pursued, as for example, Philosophy 9A, 9B, 9C, etc.

120 Logic, and Philosophy of Mind

Steinn

Formal and functional logic; examination of reflective procedures in various fields; the logic argument and analysis of fallacies; review of psychological, experimentally supported explanations of thought. requisites: Psychology 1A and Philosophy 5A.

Spring (3) (Offered in 1938-39 and alternate years)

130 Ethics

Steinn

The meaning of morality; motives and sources of belief, aspiration, and psychological and sociological factors; representative ethical systems; relation of ethics to other axiological studies.

Spring (3) (Offered in 1937-38 and alternate years)

PHYSICAL EDUCATION

Men's Department

Candidates for a teaching credential in physical education should refer to the statement "Admission to Upper Division Teacher Training" on page 20.

LOWER DIVISION COURSES

A two-hour activity course each semester is required for the two years of lower division. A medical examination is given each student when entering and the work is fitted, as far as possible, to his needs. The content of the required two years is planned to give each student fundamental training in those sports which have carry-over value into adult life. Opportunity is given all students to take part in the regular competitive sports program.

1A-1B Freshman Activity

Year course, beginning either Fall or Spring ($\frac{1}{2}$ - $\frac{1}{2}$)

1C-1D Sophomore Activity

Year course, beginning either Fall or Spring ($\frac{1}{2}$ - $\frac{1}{2}$)

Class sections are so arranged that the student may choose the activity he is most desirous of learning. Fundamentals of the sports listed are taught during the class hour.

2A-B-C-D Golf Spring ($\frac{1}{2}$)

3A-B-C-D Track Spring ($\frac{1}{2}$)

4A-B-C-D Baseball Spring ($\frac{1}{2}$)

5A-B-C-D Basketball Spring ($\frac{1}{2}$)

6A-B-C-D Tennis Fall and Spring ($\frac{1}{2}$)

7A-B-C-D Boxing Fall and Spring ($\frac{1}{2}$)

8A-B-C-D Wrestling Fall and Spring ($\frac{1}{2}$)

9A-B-C-D Fall Track Fall ($\frac{1}{2}$)

10A-B-C-D Swimming Spring ($\frac{1}{2}$)

11A-B-C-D Fencing Fall and Spring ($\frac{1}{2}$)

13A-B-C-D American football Fall ($\frac{1}{2}$)

13X-Y-Z Spring Football Spring ($\frac{1}{2}$)

14A-B-C-D Gymnastics Spring ($\frac{1}{2}$)

The following courses fulfill degree requirements for physical education majors and meet state requirements for teaching credentials in physical education.

Emergencies

C. R. Smith

The accepted procedure in meeting the emergencies which daily arise in the schoolroom, play or athletic field, beach, mountains, or any of the many places where the physical director is called on for first aid. Special attention given to the arrangement of the apparatus and the activities that many of the most common accidents are prevented or minimized.

Fall (1)

Physical Education in the Elementary School

Schwob

The content of the State program in physical education forms the basis of the course.

Required of men and women majoring in physical education. Not required of students taking the Educational Practicum. Prerequisite: Sophomore standing. Physical Education 37 must precede or accompany.

Fall and Spring (2)

A Gymnastic Activities

C. E. Peterson

Theoretical and practical work in marching, free exercises, and light and heavy apparatus. Emphasis on progression and method of presenting material. The simplest and most explanatory terminology.

Fall (2)

B Gymnastic Activities

C. E. Peterson

Acquisition of proficiency in the performance of a great group of gymnastic stunts always popular in the gymnasium and on the playground. Work of the recreational or self-interesting type rather than the formal. Climbing, stunts, and pyramid-building given chief attention, although games of low organization are also considered.

Spring (2)

Playing Rules of Modern Games

Gross

Thorough study of latest rules of modern major and minor sports.

Fall and Spring (1)

Principles of Physical Education

Calland

Cultivation of a favorable attitude for a professional study of physical education. Ideals and aims of physical education and the relation of physical education to school and society stressed.

Fall (2)

UPPER DIVISION COURSES

Health Education

B. I. Stone

Course for teacher-training students which includes the study of the causes, common physical defects, and health indices of school children; detection and control of communicable diseases which may appear in school; and the elements which underlie a health education program. Methods of presenting personal and group health to children of different ages. Hygiene of the schoolroom, such as seating, lighting, and ventilation.

Fall and Spring (2)

154 Organization and Administration of Physical Education Gr
Material presented in Physical Education 54 plus general and spe
problems that confront physical education departments in junior
senior high schools and in colleges. Prerequisite: Physical Education
Fall and Spring (3)

155. Applied Anatomy C. E. Pete
Mechanics of the human skeletal and muscular-systems and their act
in games, formalized activities, and general body movements; mechan
strength and durability as influenced by anatomical factors.
Spring (2)

156A Sports Methods C. E. Peterson and S
Different theories and methods of teaching the more highly organ
sports: baseball, basketball, tennis, and track.
Fall (2)

156B Sports Methods Call
Methods of teaching those sports most adaptable to intramural and in
class competition: golf, handball, soccer, speedball, and volley ball.
Spring (2)

166 Technique of Officiating Gr
Review of material presented in Physical Education 66. Methods
officiating all the sports common to the school or college program;
methods of training student officials. Practice in the handling of
mentary, junior high, senior high and intramural college competition.
Spring (2)

169 Technique of Teaching Activities Physical Education S
Directed leadership in activities. A course preliminary to prac
teaching in which students are given opportunity to develop leaders
and teaching technique.
Spring and Fall (1-2)

171 Community Recreation C. E. Peter
Planned to meet the needs of the various workers in community p
ground systems apart from schools, as well as the needs of directors
play and recreation in social service institutions, industrial plants, sho
and factories. Special attention given to scout and campcraft.
Spring (2)

180 Theory of Coaching Football Calla
Methods of coaching football. Details of teaching individual fun
mentals, offensive and defensive team play, strategy, and conditioning
athletes. Two hours of lecture and three hours of laboratory.
Spring (2)

PHYSICAL EDUCATION

Women's Department Candidates for a teaching credential in physi
education should refer to the statement "Admission to Upper Divis
Teacher Training" on page 20, and to the outline for the A.B. Deg
With Special Credential in Physical Education on pages 35, 36.

LOWER DIVISION COURSES

hours weekly of directed physical activity are required in freshman and sophomore years. In order to meet this requirement, students taking curriculum leading to the A.B. degree with an elementary credential must take Physical Education 36A-36B, 37, and 38A. All other students are required to take Physical Education 36A-36B, 38A-38B.

Fundamental Skills Bennett
 required of all freshmen.
Autumn and Spring (½)

Folk Dancing Bennett
 or
Rhythmic Skills Schwob
 required of all freshmen.
 These courses are required of women majoring in physical education.
Autumn and Spring (½)

Games and Rhythms for the Elementary School Schwob, Shafer
 prerequisite: Physical Education 36A-36B.
Autumn and Spring (½)

38B Sports and Dancing Physical Education Staff
 Freshman sophomores may elect from the following:
 Folk dancing
 Beginning or advanced dancing
 Tennis
 Swimming
 Golf
 Badminton
 Archery
 Recreational sports
 Seasonal sports
 Prerequisites: Physical Education 36A, 36B.
Autumn and Spring (½ each)

Ball Dancing Schwob
 Planning class for men and women
 Credit
Autumn and Spring

Physical Education in the Elementary School Schwob
 The content of the State program in physical education forms the basis of the course.

Required of men and women majoring in physical education. Not required of students taking the Educational Practicum. Prerequisite: Sophomore standing. Physical Education 37 must precede or accompany.
Autumn and Spring (2)

SPORTS

Women not majoring in physical education may earn upper division credit in Physical Education 55, 56, 57, or 59 by special permission of the department director.

2. The Individual Sports swimming, tennis, golf, archery and badminton are offered throughout the year. Women majoring in physical education select *one* as a major activity and two others as minors. Skills in sports thus selected must be maintained as prerequisite to the senior course, Physical Education 185. (See page 103.)

3. The Seasonal Group Sports are volley ball, basketball, hockey, softball or soccer, and baseball. Majors participate in at least *two* seasons of each.

4. The Woman's Athletic Association sponsors the Intramural Sports program. Under its direction competition in dual and group games is promoted throughout the year. Open to all college women.

55 Swimming Shafer, Ben

- A. Beginning. $\frac{1}{2}$ unit.
- B. Intermediate. $\frac{1}{2}$ unit.
- C. Life Saving. $\frac{1}{2}$ unit.

Students passing examination receive American Red Cross Life Saving Certificate.

55A or 55B and 55C are required of freshmen women majoring in physical education.

56 Tennis Shafer, Ben

Required of women majoring in physical education.

($\frac{1}{2}$)

57 Golf Schwob, Supervis

Required of women majoring in physical education.

($\frac{1}{2}$)

59 Archery Shafer, Ben

Required of women majoring in physical education.

($\frac{1}{2}$)

UPPER DIVISION COURSES

Open to all women Required of women majoring in physical education

102 Emergency and Safety Programs Ben

Prevention of accidents; practical application of first aid methods leading to American Red Cross First Aid Certificate.

(1)

153 Administration of Secondary Physical Education Schv

(2)

155 Applied Anatomy

Mechanics of the human skeletal and muscular systems and their action in games, formalized activities, and general body movements; mechanical strength and durability as influenced by anatomical factors.

Spring (2)

- A-157B Sports Methods** **Shafer**
 etice for skill, study of rules, and of coaching methods. Prerequisite :
 eason's experience in at least four of the following sports—volley ball,
 etball, hockey, speedball, soccer, baseball.
r course (2-2)
- Stunts and Tumbling** **Bennett**
 ractical course in personal technique. Progressive series of individual,
 l, and group stunts, including simple pyramids.
- Principles of Teaching Gymnastics** **Schwob**
 gymnastic materials and methods followed by practice in teaching march-
 gymnastics and use of apparatus.
- Folk Dancing** **Schwob**
 etice in folk and clog dancing. Methods of presentation and study of
 umes and customs related to the dance. Notebooks required. Open
 ll upper division men and women.
- A-164B Advanced Dancing** **Schwob**
 erequisite: Physical Education 36B, Beginning Dancing or equivalent.
r course (2-2)
- Physiology of Exercise** **Bennett**
- Technique of Teaching Activities** **Schwob**
 ervation, lesson planning, and teaching of college classes.
and Spring (3)
- Recreational Leadership** **Shafer and Assistants**
 damentals of recreational leadership developed by instruction in Scout
 t, Camp Fire lore, Girl Reserve activities, the study of school recrea-
 al needs and facilities, and of civic recreation. Open to all upper
 ion women. Recommended to students interested in the recreational
 acts of social service.
- Principles of Physical Education** **Schwob**
- Individual Program Adaptations** **Schwob**
 stments of the physical education program to the physical needs and
 cities of individuals; problems concerning protective and preventive
 sures which are not highly specialized corrective phases.
- Technique of Individual Sports** **Shafer**
 urse summarizing rules, teaching methods, and individual playing
 ty. A required senior course. Can not be taken until all require-
 s regarding sports and games have been fulfilled. (See page 101.)

PHYSICAL SCIENCE

1 Introductory

A survey course dealing with the nature of man's physical universe. The subject matter covered includes work in fields of astronomy, chemistry, geology and physics; chosen to provide a background for present-day physical science thought. Not open to students who have taken high school or college physics and chemistry or either of these subjects combined with astronomy or geology.

Fall and Spring (3)

PHYSICS

Lower division preparation for the liberal arts major in physics and for the junior certificate: Physics 1A-1B-1C-1D; Chemistry 1A-1B; Mathematics 3A-3B and 4A-4B, or their equivalents. Recommended: A reading knowledge of French and German.

Liberal arts major (upper division) in physics, required: Twenty-four units of upper division work in physics including Physics 105A-105B and 107A-107B. Six of the twenty-four units may be elected in related subjects on consultation with the chairman of the department.

For requirements for liberal arts major in physical science, see pages 41, 43.

LOWER DIVISION COURSES

1A-1B General

Mechanics, properties of matter, and heat. A development of the fundamental ideas which underlie the subject of physics, and the application of them in the discussion of practical problems. Lectures, text assignments, problem sets, and experimental laboratory work. Two lectures, and one laboratory period each week. Prerequisites: High school physics, chemistry, and trigonometry. Students deficient in any part of the requirement may enroll only with the permission of the instructor.

Year course (3-3)

1C-1D General

A continuation of Physics 1A-1B for students in the sophomore year, including magnetism, electricity, sound, and light. Two lectures and one laboratory period each week.

Year course (3-3)

2A-2B General

Properties of matter, mechanics, heat, sound, light, electricity, and magnetism. A nonengineering course. Lectures, demonstrations, and discussions. Prerequisite: Two years of high school mathematics.

Year course (3-3)

3A-3B Physical Measurements

Laboratory work in mechanics, properties of matter, heat, sound, light, electricity, and magnetism. Usually taken in conjunction with Physics 2A-2B.

Year course (1-1)

UPPER DIVISION COURSES

105A-105B Analytical Mechanics

Treatment of fundamental principles of statics, kinematics and dynamics of particles and rigid bodies. Prerequisites: Physics 1A-1B or 2A-2B and a working knowledge of calculus.

Year course (3-3) (Offered in 1938-39 and alternate years)

Optics **Baird**
fraction, color, interference, diffraction, polarization, radiation, and optical instruments. Prerequisite: Eight units in physics.
Fall (3) (Offered in 1938-39 and alternate years)

A-107B Electrical Measurements **Baird**
devoted mainly to the study of potentiometer methods, capacity, inductance, resistance, and magnetic flux. Two lectures and one laboratory period each week. Prerequisite: Eight units in physics.
Evening course (3-3) (Offered in 1937-38 and alternate years)

Modern Physics **Baird**
an introductory survey of the problems of modern physics. Theories of atomic structure and series in optical spectra, radioactivity, conduction of electricity through gases, radiation and the quantum theory. Prerequisite: Eight units in physics.
Evening (3) (Offered in 1938-39 and alternate years)

Advanced Heat **Moe**
thermal properties of matter. An introduction to the kinetic theory of gases and the laws of thermodynamics. Prerequisites: Eight units in physics and a working knowledge of calculus.
Evening (3) (Offered in 1937-38 and alternate years)

Wave Motion and Sound **Moe**
study of wave motion and its applications to sound production and transmission. The principles of musical instruments and architectural acoustics. Prerequisite: Eight units in physics.
Fall (3) (Offered in 1937-38 and alternate years)

Special Study **Baird, Moe**
reading or work on special problems in physics. Admission by consent of the instructor. Credit and hours to be arranged in each case. Open to students who have completed at least eight units of work in the department with grade of A or B.
Fall and Spring (1 or 2—1 or 2)

Political Science

Lower division preparation in political science for advanced work and for the junior certificate: Political Science 1A-1B and Economics 1A-1B or History 4A-4B. High school civics is presupposed in the following courses:

LOWER DIVISION COURSES

A-1B Comparative Government **Leonard**
comparative study of typical governments. Semester I: England, France, and Switzerland. Semester II: Italy, Germany, Russia, and Japan.
Evening course (3-3)

UPPER DIVISION COURSES

American Institutions **Leonard**
origins and principles of the United States Constitution, and a survey of the political institutions which have developed under it.

Prescribed by the State law for all candidates for the bachelor's degree. Enrollment is limited to juniors and seniors, except with the consent of the instructor. Attention is called to the fact that this course is offered only during the Fall semester.

Fall (2)

111 Theory of the State

Leona

The nature of the State, its organization and activities, and its relation to individuals and to other states.

Fall (3) (Not offered in 1937-38)

113 American Political Ideals

Leona

Underlying theories and principles of American governmental policy.

Spring (3) (Not offered in 1937-38)

151 Governmental Organization in the United States

Leona

Origins. The federal system. Organization, powers and functions of the executive, legislative, and judicial branches of the national government and expansion of its activities. The party system.

Fall (3)

152 Popular Government in the United States

Leona

Development of the means for democratic control of government in the United States: the history, motivation, methods and control of political parties; party machines; election systems; influence of minority groups; the lobby; the press.

Spring (3)

Psychology

Lower division preparation in psychology for advanced work and the junior certificate. Required: Psychology 1A-1B, Zoology 1A-1B, or Biological Science 10A-10B, Philosophy 5A-5B. Recommended: French, German, chemistry, physics, and anthropology.

LOWER DIVISION COURSES

1A General

Bell, Steinme

An elementary survey of normal adult psychology, focused upon personality; the subjective and objective aspects of behavior. Furnishes basis for all other courses in psychology. Prerequisite: Sophomore standing.

Fall and Spring (3)

1B General

Bell, Steinme

A continuation of general psychology designed to familiarize the student with (1) elementary experimental methods, (2) famous experiments in psychology, and (3) some one topic (not included in upper division courses) in which he pursues an independent experimental approach. Prerequisite: Psychology 1A.

Spring (3)

4A Applied

Be

Applications of psychology to problems of the individual in learning, making social adjustments, choosing a vocation, developing desirable personality traits, and achieving success and happiness. Survey of psychology as applied in education, music, art, speaking, writing, law and medicine. Prerequisite: Psychology 1A. Recommended: Psychology 11.

Fall (2)

Psychology Applied in Business

Bell

Applications of psychology to a wide range of problems encountered by man in business. Motives, attitudes, habits, and traits in their relation to behavior of employer, employee, and executive. Advertising, salesmanship, and problems of selecting, placing and increasing the efficiency of employees. Business cycles, and business research. Prerequisite: Psychology 1A. Recommended: Psychology 1B and Psychology 4A.

Spring (2)

UPPER DIVISION COURSES

Genetic (Growth and Development of the Child) Bell, Steinmetz

The mental and physical growth and development of the child, especially the relation to norms of structure and function. Diagnosis of individual children by comparison with norms. Behavior problems and the growth of personality traits as conditioned by physical and mental factors. An intensive study of one child presenting a problem of physical or mental maladjustment made by each student. Prerequisite: Psychology 1A. Recommended: Psychology 1B.

Fall and Spring (3)

Mental Testing Bell

Brief history of intelligence testing and the fundamental assumptions underlying the construction of tests. The Stanford revision of the Binet-Simon test illustrated by demonstrations. Each student required to give at least 20 individual tests. Group intelligence tests discussed and demonstrated. Prerequisites: Psychology 1A and Education 108. Recommended: Psychology 1B, 102, Education 140.

Fall (3)

Mental Hygiene Bell

Designed primarily for teachers, nurses, physicians and social workers. Problems, personality adjustment, emotional problems, attitudes, conflicts, neurotic behavior, conduct disorders of both child and adult. The beginnings of undesirable attitudes and habits and methods of treatment are stressed more than serious cases of maladjustment which are either incurable or problems for a psychiatrist. The methods of building wholesome personality are emphasized more than the analysis of severe disorders. Prerequisite: Psychology 1A. Recommended: Psychology 1B, 102.

Fall (2)

History of Psychology Bell, Steinmetz

Historical development of psychology out of mental philosophy; sensationism; the body-mind problem; associationism; structuralism; functionalism; rise of the schools and experimental procedures. Prerequisites: Psychology 1A, 1B.

Fall (2)

Contemporary Psychology Steinmetz

Psychoanalysis, behaviorism, and Gestalt psychology; the modern eclectic viewpoint; non-Aristotelian speculation; factor analysis; characteristic British, French, German, and American contributions; outstanding problems, publications and fields. Prerequisites: Psychology 1A, 1B, 120, or

other upper division work in the department provided instructor and head of the department consent.

Spring (2) (Offered in 1938-39 and alternate years)

145 Social

Personality as it develops in relation to social environment. Suggestive imitation, leadership, the crowd, public opinion, social control, prejudice, propaganda, sex differences, race differences, etc. Prerequisite: Psychology 1A. Recommended: Psychology 4A.

Spring (3)

Educational Psychology See Education 130

Educational Measurements See Education 108*

Spanish

(See Foreign Languages)

Speech Arts

(See English)

Surveying

LOWER DIVISION COURSES

1A-1B Plane Surveying

Gleason

Use and adjustment of surveying instruments, computations and map making, together with a study of land, topographic, city, and mine surveying. Two instruction periods and one three-hour period for field work and mapping each week. Prerequisites: Trigonometry and Industrial Arts 3A, or equivalent, and sophomore standing.

Year course (3-3)

3 Summer Class in Surveying

Practical field problems in reconnaissance, triangulation, location and topographic surveys. Observations for meridian, time and latitude. Precise work in linear and angular measurements. Development of self-reliance, accuracy, and professional skill on the part of the student. Four weeks course held in the mountains near San Diego. For details regarding location of camp, date of registration, date of opening, and other arrangements, a special announcement of the surveying camp may be secured at the Registrar's Office. Offered if demand is sufficient. Prerequisite: Surveying 1A-1B.

Summer (3)

Zoology

(See Biological Sciences)

* Students taking a curriculum in which Education 108 is required, may substitute another three-unit course in education, if they wish to count Education 108 in a psychology minor.

FACULTY

For the Year 1936-1937

ALTER R. HEPNER, A.M.—President.

A.B., A.M., University of Southern California.

Graduate student, University of Chicago and University of California.

Instructor, La Verne College; High School Teacher: Chicago, Illinois; Long Beach and Oxnard, California. Vice-Principal; Principal, Fresno High School; Assistant Superintendent; Superintendent of Schools, Fresno; Superintendent of Schools, San Diego. Summer Session and extension instruction: State Colleges of Fresno, San Jose, and San Diego; Claremont Colleges; Stanford University; University of California at Los Angeles. Chief, Division of Secondary Education, California State Department of Education.

(Appointed September, 1935.)

VING E. OUTCALT, M.A.—Vice President and Professor of English.

A.B., M.A., Stanford University.

Student, University of Illinois; graduate study and research work, Stanford University. Travel in Europe.

Head of Department of English, San Diego High School.

(Appointed September, 1912.)

W. AULT, M.A.—Dean and Professor of Education.

B.S., Valparaiso University; M.A., University of South Dakota.

Student, Miami University; graduate student, University of Iowa and University of Southern California.

Superintendent of city schools; conductor and instructor in teachers institutes; Professor of Education at Southern State Teachers College, Springfield, South Dakota.

(Appointed September, 1925.)

THUR G. PETERSON, M.A.—Dean of Liberal Arts, ex officio in general charge of Lower Division studies, and Professor of Economics.

A.B., College of Pacific; M.A., Stanford University.

Graduate student, University of Southern California.

Vice Principal of San Diego High School and Director of Junior College.

(Appointed September, 1921.)

ARLES E. PETERSON, M.A., Claremont Colleges—Dean of Men and Associate Professor of Physical Education and Director of Physical Education for Men.

A.B., San Diego State College.

Student, Oregon Agricultural College and University of California.

Graduate student, Claremont Colleges.

Director of Playgrounds, Portland, Oregon; Director of Physical Education, Y. M. C. A.; Physical Education and Recreation work in the United States Army Camps; Director of Physical Education in Junior High School, Berkeley, California.

(Appointed July, 1921.)

RY IRWIN McMULLEN, A.B.—Dean of Women and Associate Professor of Educational Guidance.

A.B., San Diego State College.

Graduate student, University of Chicago, and Stanford University.

Public school teacher, Oakland, California.

(Appointed Secretary to the President July, 1926; Dean of Women January, 1934.)

IN R. ADAMS, M.A.—Associate Professor of English.

A.B., M.A., University of Michigan.

Graduate student, University of Southern California.

Instructor in Rhetoric, University of Michigan; Associate in English, University of Washington.

(Appointed September, 1928.)

GEORGIA C. AMSDEN—Associate Professor of Commerce.

Gregg School, Chicago; special secretarial training in various institutions; University of California summer session and extension division work.

Teacher in University of California summer school; Travel Representative and Secretary for the Federal Board for Vocational Education, France, World War; in charge of Stenographic Division, Department of Personnel, American Red Cross Headquarters, Pacific World War; Secretary, Standard Life and Accident Insurance Company, Detroit, Michigan; Assistant Editor and Reporter, Daily Press, Ypsilanti, Michigan; Instructor, San Diego High School.

(Appointed September, 1919.)

GUINIVERE KOTTER BACON, M.A.—Training Supervisor and Associate Professor of Education.

B.S., Utah Agricultural College; M.A., Stanford University. Graduate student, Stanford University; University of California Teachers College, Columbia University.

Teacher in Public Schools; Primary Supervisor.

(Appointed July, 1919.)

O. W. BAIRD, M.A.—Professor of Physics.

A.B., University of Wisconsin; M.A., University of California. Graduate student, University of Minnesota.

Head of Science Department, University of Wisconsin High School and Stadium High School, Tacoma, Washington; Assistant in Physics Department, University of Washington, Seattle.

(Appointed September, 1919.)

JAMES RICHMOND BARBOUR, Ph.D.—Assistant Professor of Education and Principal of the Training School.

A.B., San Diego State College; M.S., University of Southern California. Ph.D., Yale University.

Teacher, San Diego City Schools; Principal, San Diego City Schools; Teaching Assistant (Instructor's Rank) Yale University.

(Appointed September, 1919.)

FRED BEIDLEMAN, B.Mus.—Associate Professor of Music.

B.S., B.Mus., Columbia University.

National Music Camp, Interlochen, Michigan; Graduate Student, Northwestern University.

Teacher of Music, Boys High School, Brooklyn, N. Y.; Instructor, Columbia University; Head of Violin Department, University of Illinois; Assistant Professor of Music, University of North Dakota; Professor of Music and Director of the Conservatory, College of Puget Sound, Tacoma, Washington. (Appointed September, 1919.)

GERTRUDE SUMPTION BELL, M.A.—Professor of Psychology.

A.B., Indiana University; M.A., Stanford University.

Graduate, Indiana State Normal School; Research Work, Clark University. Traveled in Europe.

Assistant in Education and Director of Practice Teaching, University of Colorado; State Institute Lecturer, Montana; Instructor, School of Education, Indiana University.

(Appointed August, 1919.)

MARJORIE KELLY BORSUM, M.A.—Assistant Professor of Arts.

B.E., University of California at Los Angeles; M.A., University of Southern California.

Pupil in Paris of Andre Lhote, Painter, and of Mme. Alexandre Exter, Russian Stage Designer.

Instructor in Fine Arts, Pasadena Junior High School.

(Appointed September, 1919.)

J. PHILIP BROMLEY, M.S.—Instructor in Commerce.

B.S., M.S., University of Southern California.

Teacher, Garvey School District, Los Angeles County.

(Appointed September, 1919.)

BAYLOR BROOKS, B.A.—Assistant Professor of Geology.

B.A., Stanford University.

Graduate student, University of Arizona; Harvard University; Oxford University; Stanford University. Travel in Europe.

Member of staff, Yosemite Field School of Natural History; Summer Lecturer, National Park Service, Yellowstone and Yosemite.

(Appointed September, 1919.)

- IZABETH McPIKE BROWN, Ph.D.**—Assistant Professor of French.
Ph.B., M.A., Ph.D., University of Chicago.
Diplôme de Phonétique, Ecole des Hautes Etudes, Paris, France;
Certificate d' Etudes Francaises, University of Paris.
Assistant in French, University of Chicago; Head of French Department, Rockford College, Rockford, Illinois; Instructor in University of California, Extension Division, San Diego.
(Appointed September, 1926.)
- SLIE P. BROWN, Ph.D.**—Professor of French and Spanish.
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STATE COLLEGE
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BULLETIN AND ANNOUNCEMENT OF COURSES

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JUL 10 1941
UNIVERSITY OF ILLINOIS

VOLUME 26
NUMBER 2
JUNE, 1938

SAN DIEGO STATE COLLEGE
SAN DIEGO, CALIFORNIA

Published quarterly by the
SAN DIEGO STATE COLLEGE
San Diego, California



THE ACADEMIC BUILDING

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CALENDAR 1938-1939

SEMINAR SESSIONS, 1938.

Term I, six weeks, June 20-July 29.

Term II, three weeks, August 1- August 19.

FALL SEMESTER, 1938-1939.

August 29—Applications for Admission for the Fall Semester must be filed on or before this date.

September 6, 7, 8—Orientation and Testing Program for all New Students (Attendance required, three full days)

Aptitude Test—8:00 A.M., September 6.

Subject A—8:00 A.M., September 7.

High School Achievement—8:00 A.M., September 8.

Fundamentals Test—1:00 P.M., September 8.

September 9—Admission Day—Offices closed.

September 10—Executive Committee Meeting at 1:00 P.M.

September 12—Registration and payment of fees.

September 13—Instruction begins—late registration fee becomes effective.

November 11—Armistice Day Holiday.

November 24 and 25—Thanksgiving Day Recess.

December 16—Christmas Recess Begins.

January 3—Classwork resumes.

January 19-26—Mid-Year Examinations.

SPRING SEMESTER, 1938-1939.

January 13—Applications for admission for the Spring Semester must be filed on or before this date.

January 27—Executive Committee Meeting at 1:00 P.M.

January 28, 30, 31—Orientation and Testing Program for all New Students (Attendance required three full days)

Aptitude Test—8:00 A.M., January 28.

Subject A—8:00 A.M., January 30.

High School Achievement—8:00 A.M., January 31.

Fundamentals Test—1:00 P.M., January 31.

February 1—Registration and payment of fees.

February 2—Instruction begins—late registration fee becomes effective.

February 22—Washington's Birthday Holiday.

April 3-7 incl.—Easter Recess.

April 30—Founder's Day.

May 30—Memorial Day Holiday.

June 1-8 incl.—Final Examinations.

June 9—Annual Commencement.

SUMMER SESSIONS, 1939.

Term I, six weeks, June 19-July 28.

Term II, three weeks, July 31-August 19.

THE COLLEGE

Historical Sketch

The growth of the San Diego State College has involved three stages of development. It was known as the State Normal School of San Diego when it was established by legislative enactment in 1897 and opened its doors in 1898.

The second cycle of its growth began in 1921 when the legislature converted all the California normal schools into State teachers colleges and when San Diego Junior College was merged with the teachers college. Lower division courses were then available in a single institution for the various types of students in the community. From 1927 to 1934, the junior college relationship was discontinued, and the teachers college carried the lower division offerings. These offerings were enriched when the junior college arrangements were resumed in September, 1934.

The four-year curricula, leading to an A.B. degree with a major in education, were established in 1923. The State Board of Education, at that time and subsequently, authorized the following teaching credentials, which are to be granted in connection with the degree: general elementary, general junior high school, general junior high-general elementary; special secondary in art, business education, music, and physical education. Presecondary curricula were first authorized by the State Board of Education in 1928 and major subjects were approved from time to time until a total of thirteen was finally reached: art, chemistry, commerce, economics, English, geography, history, mathematics, music, physical science, physics, Romance languages, and zoology.

In September, 1935, the college entered upon its third phase when it came, by legislative enactment, to be the San Diego State College. This change in status permitted the college to drop the requirement in education courses from the curricula previously known as presecondary and to convert them into liberal arts curricula leading to the A.B. degree with one of the thirteen majors enumerated above.

Location and Environment

Known as a winter resort with a mild but invigorating climate, San Diego has become equally famous for its cool summers. High cultural standards in art, music, literature and science create a stimulating environment for a college. Many of these advantages are to be found in the heritage resulting from the expositions of 1915-16 and 1935-36, including the buildings themselves, which portray the best types of Spanish colonial art and architecture. Housed in these buildings are the Fine Arts Gallery, exhibits in anthropology, natural history, and American archaeology which are in many respects unsurpassed. The Moorish organ, the Ford Bowl, and the horticultural gardens make Balboa Park, in which all these facilities are located, world renowned. The Scripps Institute of Oceanography, operated by the University of Cali-

fornia at La Jolla, gives opportunity for important cooperation in biological sciences.

Buildings and Equipment

On February 1, 1931, the college was moved to the new campus, located one mile north of the city's principal east-west boulevard, El Cajon Avenue. The buildings are of Spanish-Moorish architecture which is well suited to the landscape and climate of this region. They include the Academic Building, which houses lecture halls, classrooms, and administrative offices; the Science building; the Library, the Little Theater; the Training School; Scripps Cottage (a social club house for women students); the Student Building; and the Physical Education Building, a structure with adequate facilities for both men and women. The gymnasium contains a very fine basketball floor with stands that will accommodate 1500 spectators. A fine concrete stadium, constructed in a natural site, has a seating capacity that is adequate for present needs. Ultimately it will accommodate approximately 45,000 people.

Facilities for the Training of Teachers

The college maintains a modern elementary training school on the campus where it has developed an extensive program for the education of elementary school teachers. The classroom-laboratory plan which calls for the use of work-rooms, the library, and shops, affords unusual opportunities for the induction of students into teaching.

By arrangement with the San Diego City Schools, practice teaching is provided in the Euclid elementary school for one-half day throughout a semester, and a somewhat similar arrangement exists at the Woodrow Wilson Junior High School for students who are preparing to teach junior high and special secondary school subjects. Students preparing to teach only special secondary school subjects may be assigned to one of the senior high schools.

The Library

The library facilities of this college are noteworthy for an institution of this size. The library consists of 60,000 volumes selected to meet the requirements of a modern educational institution. Seven professionally trained librarians are available to render assistance to students in their reading and reference work.

The Training School Library, representing a collection of 9000 volumes, possesses equipment and building facilities that are unique.

Living Accommodations

The college does not maintain dormitories since nearly all of the students live with parents or guardians. Living arrangements for students whose homes are not in San Diego or within commuting distance are made through the offices of the Dean of Women or the Dean of Men.

All women students are urged to live in the residence hall adjoining the campus. Careful consideration is given to study conditions, healthful living and adequate social opportunities. Room and board may be secured for as little as \$160.00 per semester, payable in four installments. Opportunities to reduce this figure by working a few hours each week are occasionally available. Reservations should be made in advance.

the Office of the Dean of Women. Where students find other accommodations more desirable, written permission from parents must be secured and filed with the Dean of Women.

Student Life

A rich field of extra-curricular activities is available to the student throughout his college life. The student is urged to carefully select these activities in order that he may profit by these extra-class experiences without lowering his standards of scholarship. The Student Handbook, available at time of registration, gives information concerning activities which include organizations in every department of the college, and opportunities for individual and group experience in the social, athletic, fraternal, religious and governmental life of the campus.

Student Health Service

The Health Department is maintained for the protection and care of student health. A complete physical examination is required of each student upon admission to college. Careful attention is given to cases undergoing remedial treatment or to cases in which a modification of study load or of participation in physical activities seem advisable.

A representative of the Health Department is available throughout the entire day for consultation and emergency treatment. Students who have been absent because of illness should receive clearance from the Health Department before returning to classes.

Placement Service

The college offers placement services of three distinct types for students and graduates of this institution:

1. Students who seek part-time employment may register with the Dean of Women or the Dean of Men.
2. A Placement Office is maintained by the college as a clearing house of employment information for employers of State College graduates. While the purpose of this office is to assist candidates in securing positions, its primary aim is to bring about better adjustment between the teacher and community.
3. The Placement Office also serves students in liberal arts curricula who desire employment.

Alumni Association

The college has an active Alumni Association. Since its reorganization in March, 1921, the association has steadily gained in membership. The annual Homecoming is an important event each year; other meetings take place on dates of important athletic contests. The association sponsors the organization of Aztec clubs in various communities. Information concerning the association may be obtained by writing the secretary at the college.

FEES, EXPENSES, AND LOAN FUNDS

Probable Expenses for One Semester

An estimate of the expense of attendance for one semester is given below. No estimate is made as to the cost of clothing, or other personal item, since these figures vary with the demands of the individual. Laboratory fees are additional.

	<i>Minimum</i>	<i>Average</i>
Fees and Deposits-----	\$20.00	\$27.50
Books -----	10.00	15.00
Board and Room-----	125.00	150.00
Incidentals (transportation, lunches, student organizations, etc.) -----	35.00	50.00
	<u>\$190.00</u>	<u>\$242.00</u>

Before enrolling in college, the student should possess sufficient resources to meet the minimum expenses for one semester. A limited amount of clerical work in offices and in the library may be offered from time to time, but ordinarily it is not sufficiently remunerative to reduce expenses materially. An employment service is conducted by the Dean of Women and the Dean of Men to assist students who must earn part of their expenses.

List of Fees and Deposits (Subject to Revision)

PAYABLE AT TIME OF REGISTRATION

*Resident students-----	\$6
Limited students and auditors (5 units or less)—per unit-----	2
*Non-resident students—1st semester -----	75
2d and subsequent semesters-----	37
Late registration fee -----	1
Late filing of registration book-----	1
Locker (key or combination padlock, each issue) -----	2
College Aptitude Test-----	2
General service deposit (paid by every student registered)-----	2
Chemistry deposit (each course in chemistry)-----	3
Geology deposit (Geology 21A-21B)-----	1
Physics deposit -----	4
Student body fee-----	4
Associated Men Students or Associated Women Students fee-----	

PAYABLE WHEN SERVICE IS RENDERED

English—Subject A Test-----	\$
Fundamentals Test -----	

*See page 19 for definition of residence for fee-paying purposes.

valuation of record for advanced standing-----	\$2.00
uplicate of Library Card-----	.10
uplicate registration book-----	.10
ranscript of record (first copy free)-----	.50
cial Examination -----	2.00
te Teaching Credentials***	

Elementary

Elementary and Junior High

Special Secondary

School Administration

School Supervision

Each credential ----- 3.00

PAYABLE DURING SEVENTH WEEK OF EACH SEMESTER

e payment of course fees-----	\$1.00
rary -----	.50
lth -----	.50
vel, Men -----	1.50
vel, Women -----	1.00

ditional laboratory fees and charges for certain courses are payable during the seventh week of each semester. These fees range from fifty cents to seven dollars and fifty cents per course.

Loans and Scholarships

Scholarships for both men and women have been made available through efforts of alumni, and civic organizations. Superiority in scholarship worthiness from the point of view of need are the standards upon which selection is based. Scholarship aid is therefore restricted for the part to students who have completed the lower division of the college.

Both long and short term loans are available to students who have been in attendance for at least one year and who have given evidence of ability to do satisfactory college work. Application for loans is made to the Committee on Loans and Scholarships through any Dean of the college.

A 50-cent fee must accompany each application for a transcript of record. Ten cents will be charged for each duplicate of this record which accompanies the original.

The credential fee is collected through the college by post office money order payable to the State Department of Education. This fee will be \$5.00 for students who have not resided in California one year previous to the date of their application.

ADMISSION AND REGISTRATION

General Admission Requirements

High school graduates and other applicants possessing equivalent preparation may be admitted to this college upon evidence of fitness to profit by college instruction, such fitness to be shown by previous scholastic record by evidence of good moral character and personal qualifications, and by satisfactory score on a standard college aptitude test. Regular matriculation will be granted only after the satisfactory completion of a full semester's program of study with records indicating probable success in the chosen curriculum.

Admission Status

Students will be granted regular status if they have earned eight or more recommended units in English, Social Science, Foreign Language, Mathematics, Natural Science, and related fields, during the tenth, eleventh, and twelfth years in high school. Lacking this, students who have enrolled for nine or fewer units in these fields* will be granted regular status if they have earned recommended grades in three-fourths of these subjects and in three-fourths of other subjects attempted.*

Students will be granted provisional status if they have earned six or seven recommended units in English, Social Science, Foreign Language, Mathematics, Natural Science, and related fields, during the tenth, eleventh, and twelfth years in high school. Lacking this, students who have enrolled for nine or fewer units in these fields* will be granted provisional status if they have earned recommended grades in three-fifths of these subjects and in three-fifths of other subjects attempted.*

Students who do not qualify for regular or provisional status are classified as non-degree students and must enroll in one of the non-degree curricula.** Many students with regular or provisional status enroll in a non-degree curriculum.

Certificates of successful examination before the College Entrance Examination Board will be accepted when candidates cannot meet the above scholarship requirements.

Credit earned in recognized institutions of collegiate grade shall be evaluated and advanced standing allowed on the basis of the evidence submitted. Credit toward the fulfillment of graduation requirements will be allowed only in so far as the student has met the standards and requirements of this institution. Applicants for advanced standing must show an average grade of C or better in all college work previously undertaken. No applicant may disregard his collegiate record and apply for admission with freshman standing.

* During their last three years in high school.

** For further particulars see Non-degree Bulletin for 1938-39.

more than sixty-four semester hours of junior college work may be owed for credit.

Students who seek to gain admission with advanced standing must furnish complete transcripts of record for all work attempted beyond the eighth grade. A two dollar evaluation fee must accompany the application for admission.

Applicants over twenty-one years of age, who are not high school graduates and who do not possess the equivalent preparation but who receive a satisfactory score on a standard college aptitude test, may be granted provisional admission as special students. Such persons may be granted full matriculation only upon the removal of all deficiencies and upon the completion of one full semester of satisfactory college work in the chosen curriculum.

Registration

Registration for the fall semester of 1938-39 will take place on September 12, and for the spring semester on February 1. Candidates for admission may obtain an application blank from the Registrar which must be filed, with complete transcripts of record, two weeks before registration.

The college year is divided into fall and spring semesters of eighteen weeks each, followed by a summer session consisting of terms of six and three weeks, respectively. Students may enter at the beginning of either semester or at the beginning of either of the summer terms.

The summer session meets the needs of regular students who wish to gain credit toward the bachelor's degree, of teachers in service, and students who wish to secure supplemental credit or to shorten the time for completion of their curricula.

Tests Required at Registration Time and Later

A physical examination is required of all students upon entering the college. Appointments for this examination are made during registration.

All entering students are required to take the College Aptitude Test. Exceptions may be made for students who register for five units of work or less, for former graduates of this college, and for graduates of approved four-year colleges.

All entering students who are not transferring with advanced standing must take a High School Achievement Examination and a Reading Test.

The Subject A Test (English Composition) is required of all entering students. English 1A must be taken by all students whose tests indicate that they are not qualified for English 1B, even though they may not intend to enroll in English 1B. No student may enroll for his third semester of attendance unless he has qualified for English 1B or is enrolled in English 1A. Exceptions may be made for students transferring credit in English from other colleges.

Passing the Fundamentals Test in reading, spelling, arithmetic and handwriting, and a Speech Test are prerequisites for admission to upper division courses in teacher training curricula. Students should take these tests at the beginning of the sophomore year in order that they may have sufficient time to make up deficiencies, if any exist, before applying for

admission to the upper division of teacher training curricula. Exception may be made for former graduates of this or other California State teacher training institutions who have been teachers in service.

Late Registration

A student who registers after the first week of the semester is subject to limitation of his program. A fee of one dollar must be paid for registration after the regular registration period. After the first week of the semester, the instructor's approval must be secured for each course entered.

Changes in Registration

Changes in program may be made only with the approval of the proper dean. Petitions for changes in program may be secured at the Registrar's office.

A statement regarding withdrawals from class is to be found on page 2.

Auditors

Auditors register in the usual way and pay the same fees as those who are registered for credit.

GENERAL REGULATIONS

Officers for Consultation

Concerning the housing and living arrangements of students, personal problems, part-time employment, etc.—The Dean of Women; The Dean of Men.

Concerning the scheduling and arrangement for all student social affairs—The Dean of Women.

Concerning admission, program of studies, credits, degree requirements, etc.—The Registrar; The Dean of Liberal Arts; The Dean of Education.

Concerning health and physical condition—The Health Department.

Concerning student-body affairs, student-body policy, the executive officers of the student body—The Dean of Liberal Arts; The Dean of Women; The Dean of Men.

Concerning appointments to teaching positions and other types of full-time employment—The Director of Placement.

Concerning admission to Upper Division Teacher Training Curriculum, practice teaching, credential requirements, etc.—The Dean of Education.

Concerning use of the buildings—The Dean of Women; The Dean of Men.

Residence

For fee paying purposes there can be only one residence. The residence of the father during his life, and after his death, the residence of the mother is the residence of the minor. In case of legal separation or divorce, the minor's residence is the residence of the parent with whom he makes his home.

After legal separation or divorce, the residence of the husband is the residence of the wife.

Classification

Full time students are those students who have complied with the requirements for admission and are registered in more than 5 units of work. Full time students are expected to carry 12 units of work unless excused. *Limited students* are partial course students who, for adequate reasons, have been permitted to register for 5 units of work or fewer.

Special students are mature students who have not satisfied all entrance requirements but who are registered for such courses as their ability and preparation qualify them to pursue. Special students may also be limited students. For convenience in administration, students who have completed 29 units of work are classified as freshmen; those who have completed 30 to 59 units, as sophomores; those who have completed 60 to 89 units, as juniors; and those who have completed 90 or more units, as seniors.

Units of Work and Study-Lists Limits

A unit of credit represents approximately three hours of actual work per week through one semester—*one hour of lecture or recitation, together with two hours of preparation; or three hours of field or laboratory work*.

Sixteen units, in addition to physical education ($\frac{1}{2}$ unit), constitute normal semester's program for all students. An entering freshman, however, is allowed to enroll for a maximum of 17 units, and all other students for a maximum of 18 units, provided such additional enrollment seems to the adviser necessary or advisable in order to round out the study program.

Ordinarily, only 16 units, in addition to physical education, will be credited toward graduation; except that, after a student's first semester at college, a program of 17 units will be credited provided the student was registered for at least 12 units in the preceding semester and attained an average of not less than 1.5 grade points; 18 units will be credited provided the student attained an average of not less than 2.0 grade points. Any course in which a student received a passing grade may be used in the satisfaction of course requirements, even though such course is in excess of the units credited for graduation.

Credit for a program that does not conform to the above regulations may be obtained only through a petition addressed to the Scholarship Committee. No student will be allowed to register for less than 12 units without the approval of his academic dean.

Scholarship, Grades, and Grade Points

The following grades are used in reporting the standing of students at the end of each semester: A, excellent; B, good; C, fair; D, passed; E, conditioned; F, failed; I, incomplete, and W, withdrawn.

Grade points are assigned as follows: Grade A, 3 points per unit; B, 2 points per unit; C, 1 point per unit; D, no points; E, minus 1 point per unit; F, minus 1 point per unit.

The grade E is used to record work which is of low order but which may be made passable. If by the close of the next semester the work has been satisfactorily completed the grade E is changed to a D; otherwise it is changed automatically to an F. The grade I is used to record work of higher order but which is incomplete for some acceptable reason. Ordinarily, to change an I to another grade, the work must be completed within a year.

A student must earn at least a C average in all work undertaken at college to qualify for a certificate in any curriculum, a diploma of graduation, or a transcript of record with recommendation to another college or institution.

Transcripts of Record

Students may secure one official transcript of record without fee. Thereafter, requests for a transcript should be accompanied by a transcript fee of fifty cents. Once a student has matriculated in this institution, transcripts of record from other schools will not be returned or copied if they are made.

Eligibility for Practice Teaching

No student shall be eligible for practice teaching (Education 116) who has not completed 75 units, been admitted to Teacher Training,

ose entire record, and also his record for the preceding semester, s not average at least a C grade.

Probation and Disqualification

scholarship record below an average of grade D per unit of work undertaken in any single semester disqualifies a student for further attendance at the college.

y student whose scholarship record shows a cumulative deficit of 12 or more grade points for all work undertaken in the college to the close of any semester will be placed on probation.

student whose study lists have averaged less than 12 units per semester will be placed on probation if his cumulative deficit equals or exceeds the average number of units carried per semester.

y probational student whose scholarship falls below an average grade of D in any single semester is disqualified for further attendance at the college. Probationary status may be continued until the cumulative grade-point deficit is reduced, in the case of a regular student to an amount less than 12 and *in case of a limited student, to an amount less than the average number of units carried per semester.*

disqualified student may be reinstated after an interval of one semester on reasons satisfactory to the Executive Committee. All applications for reinstatement must be in writing.

Examinations

final examinations shall be given to individual students before the regular final. Any student who finds it impossible to take a final examination on the date scheduled must make arrangements with the instructor to have an incomplete grade reported and must take the deferred final examination not later than the end of the second semester following that in which the incomplete was given. No exceptions shall be made to this without the approval of a dean and the instructor concerned.

final examinations shall be written in Official Examination Books or on forms which shall be furnished by the college and distributed by the instructor at the beginning of the examination period. No books or papers of any kind shall be brought into the examination room, except by special order of the instructor.

students shall pay a fee of two dollars at the business office for every special examination given. The instructor shall give such examination only when the student presents a receipt showing that the fee has been paid.

Withdrawals from Class

student may not withdraw from class without the permission of the Registrar's study-lists officer* upon an official form which must be filed in the Registrar's Office. If a student withdraws from class for acceptable reasons during the first six weeks of a semester, a grade of W will be recorded upon his permanent record for those classes which he has dropped. If he withdraws from class for acceptable reasons during the second six weeks period, a grade of W will be recorded upon his

the Registrar's Office will designate the study-lists officer whose signature may be obtained.

permanent record and a grade, representing the level of work maintained up to the time of withdrawal, will be recorded upon a supplementary record. If he withdraws from class during the last weeks of a semester, either an I or an F will be recorded upon permanent record.

Students who withdraw from all classes during the course of a semester must petition the Executive Committee at such time as they may seek readmission to the college.

Extension and Correspondence Courses

The amount of credit for extension and correspondence courses accepted in fulfillment of the requirements for the Bachelor of Arts degree will depend upon the nature of the courses, the quality of the work done, and the student's preparation for work in the field of the course. The college reserves the right to limit credit to such courses as have been approved and the total of such acceptable credit to twelve units.

THE BACHELOR OF ARTS DEGREE

General Requirements for the Bachelor of Arts Degree

San Diego State College offers the following types of curricula leading to the A.B. Degree: (1) the curricula leading to the California teaching credentials, and (2) the Liberal Arts curricula. With slight variations in definition, many of the basic requirements are the same.

A minimum of 124 units of college work, representing a four-year course, is required for the Bachelor of Arts degree. Not less than 54 of these units must be completed in the junior and senior years. At least 30 units must be earned in this college, and not less than 24 of these residence units must be taken with the rank of senior. At least 12 units must be taken in the fall or spring semester of the final year before graduation; at least 16 units must be completed in not less than two consecutive summer sessions.

LOWER DIVISION

Subject Matter Requirements in the Lower Division

Physical Education	2 units
Health Education 1 or 2	2 units
English	6 units
Psychology	3 units
Foreign Language	15 units
Mathematics A and B or high school algebra and geometry	10-14 units
Natural Sciences	14 units
Natural Sciences	14 units
One-year course in foreign language or mathematics, or philosophy in addition to the foregoing minimum requirements in foreign language and mathematics)	6 units
Lower division subjects for the minors, unless included in one of the above requirements. See pages 25 or 28	12 units

Lower division subjects required for the major. See pages 25 or 27. Credits to make total of 64 units.

Explanation of Lower Division Requirements

English This requirement may be satisfied either in the freshman year or in the sophomore year. To be chosen from the following courses: English 1B, 2, 3, 4A, 4B, 52A, 52B, 56A, 56B.

Psychology Psychology 1A, or 2A.

Foreign Languages At least 15 units in not more than two languages required in the lower division, except that only 10 units in a modern language are required in the commerce major and no language is required in teacher training. Each year of high school work in a foreign language may be counted in satisfaction of 3 units of this requirement. A minimum

is not required in the teacher training curricula.

of two high school year-courses is acceptable in any language except Latin in which a year-course is permissible.

Social Sciences Fourteen units from two or more departments required as follows:

- (a) Social Science 1.
- (b) Additional lower division courses to meet the social science requirement must be chosen from the following list and all except teacher training students must include one of the year courses marked with an asterisk: Anthropology 50A-50B,* 54, 55; Economics 1A-11, 18A-18B; Geography 2, 12; History 4A-4B,* 8A-8B;* Political Science 1A-1B;* Social Science 3, Sociology 50.
- (c) A maximum of two semesters of fourth-year high school courses in the fields of history, political science, sociology, and economics taken with grades not lower than C may be used to satisfy the units of the social science requirement. A maximum of two units of the social science requirement may be chosen from upper division courses if high school senior courses have been used to satisfy the requirement, otherwise a maximum of five units may be counted.

Natural Sciences Fourteen units are required as follows:

- (a) Biological Science 1 or a year course in high school or college biology, botany, physiology or zoology.
- (b) Physical Science 1 or a year course in high school or college chemistry or physics.
- (c) Additional lower division courses to meet the natural science requirement must come from the following list and must include one of the laboratory courses marked with an asterisk. *High School courses:* a maximum of two years, 6 units, of third and fourth year courses in botany, chemistry,* physics,* physiology, zoology and advanced biology may be used to satisfy the natural science requirement. *College courses:* Astronomy 1, 9, 11; Biological Science 1, 10A-10B;* Botany 2A,* 2B,* 4; Chemistry 11B,* 5,* 7-8*; Geography 1 or 3 (only one course may be counted toward requirement); Geology 1A, 1B,* 1C; Physical Science Physics 2A-2B; 3A-3B,* 1A-1B,* 1C-1D,* Zoology 1A,* 1B.*
- (d) A maximum of 2 units of this requirement may be chosen from upper division courses.

Mathematics High school elementary algebra or Mathematics A or high school plane geometry or Mathematics B.

Additional Year Course In addition to the foregoing minimum requirements in foreign language and mathematics, 6 units must be chosen from one of the following groups by all except teacher training students.

Modern foreign language: Any two consecutive college courses, or two consecutive high school year courses.

Latin: Two years of high school courses in Latin.

Mathematics: 1A and 1B; 3A-3B; C and 1A; C and 3A. Students with the Commerce major may take Mathematics D and G, or Economics 2.

Philosophy: 5A-5B.

Lower Division Preparation for the Minor See description of requirements for teaching minors on page 28 and for liberal arts minors on page 25.

Lower Division Preparation for the Major See description of requirements for teaching majors on page 27. Specific requirements for the majors in the liberal arts curricula are listed in connection with the descriptive list of courses in each major field (see pages 56 to 114).

Specific Upper Division Requirements for the Liberal Arts Curricula

The liberal arts curricula lead to the bachelor of arts degree with majors in art, chemistry, commerce, economics, English, geography, history, mathematics, music, physical science, physics, Romance languages and sociology and qualify for graduate work in these fields in recognized American colleges and universities. Completion of the requirements of these curricula also enables the graduate to satisfy undergraduate requirements for the general secondary credential which, with graduate work, will enable the holder to teach in a senior high school or junior college.

A junior certificate will be granted on the completion of 64 units and satisfaction of all lower division requirements.

UPPER DIVISION

Subject Matter Requirements

Political Science 101-----	2 units
First minor (minimum in upper division courses)-----	6 units
Second minor (minimum in upper division courses)-----	6 units
Total (upper division courses)-----	24 units

At least 40 units in upper division courses must be completed, 30 of which must be earned after all lower division requirements have been satisfied.

Explanation of Requirements

Political Science 101 Political Science 113 or 152 or 175A-175B or History 171A-171B or 173A-173B will be accepted as substitutes for this requirement.

Minors A minimum of 12 units in each of two minor subjects is required. At least 6 units in each minor shall be in upper division courses completed in the junior and senior years. The entire 12-unit requirement for a minor may be met with upper division courses provided these courses have no lower division prerequisites. The prerequisites for upper division courses in various departments may be found in the course descriptions on pages 56 to 114. Minors are available in the following subjects: Anthropology, art, botany, chemistry, economics, education, English, foreign language, geography, geology, history, mathematics, music, philosophy, physics, political science, psychology, zoology. Information concerning a minor in education (presecondary curriculum) is to be found on page 47.

Requirements The specific requirements for the degree in each major field are listed in connection with the descriptive list of courses in each field (see pages 56 to 114). The student is advised to choose his major as early as his college course as practicable so that he may be able to plan his work according to the major requirements. Failure to meet the lower division requirements of the major department before the junior year may make it impossible to satisfy the upper division requirements within the normal period of two years.

Limited Electives

A total of not more than 12 units of applied and vocational courses listed below will be counted toward junior standing or the A. B. degree in Liberal Arts: Art 7, 14A; Accounting 15A, 15B, 16A, 16B, 65A, 65B; Business Economics 1A, 1B; all courses in education except those listed as available for credit toward a minor (see pre-secondary curriculum page 47); Engineering 22, Journalism 53A, 53B, 153A, 153B; Library Science 10; Merchandising, all courses; all courses in Applied Music; Physical Education, all courses except 1A, 1B, 1C, 1D, 30, 36A, 36B, 38A, 38B, 102, 161, 164A, 164B, 170; Secretarial Training, all courses; and all courses which are offered exclusively to Special Non-degree students.

Specific Upper Division Requirements for the Teacher Training Curricula

Admission to the Teacher Training Curricula Students who have been in regular attendance at the college should make application for admission to the teacher training curricula during the final semester of their sophomore year. Students who have completed three or more semesters of work in another college, upon transferring to San Diego State College, should make application as soon as they can meet the preliminary requirements.

The preliminary requirements which must be met before making application are:

1. A satisfactory score in a college aptitude test taken at the college. (See college calendar for date of test.)
2. Evidence of satisfactory ability in arithmetic, handwriting, reading and spelling indicated by having passed the fundamentals test. (See college calendar for date of test.)
3. Assurance of correct speech habits and voice control by having satisfactorily completed a course in corrective speech or by having passed a speech test given by the college.
4. Assurance of physical fitness by having passed a prescribed examination given by one of the college physicians.
5. If the student is to be a candidate for one of the special secondary credentials, he must furnish a recommendation from the chairman of that department stating that the student has ability and sufficient promise of teaching success in his field and that the department will give favor upon his application.
6. The completion of the first two years of a given curriculum, or equivalent, with a scholarship grade of C or better.

After the student has submitted evidence of having met the preliminary requirements in his application for admission to the teacher training curricula he will be interviewed by the members of a committee appointed by the faculty for this purpose. In the appraisal of applicants the committee gives careful consideration to the following factors established by the State Board of Education: intelligence, scholarship, professional aptitude, personality and character, speech and language usage, many-sided interests.

Advanced Standing in Teacher Training A maximum of 18 units of courses in education will be credited toward degree requirements in such work was taken more than five years before entering upon the degree curriculum at this college (date of first work taken after an evaluation).

record has been made, for students entering with advanced standing), or an interval of five years subsequent to last attendance, evaluations subject to revision with respect to deduction of credit in education courses and such new requirements as may have been put into effect.

Students formerly in attendance will not be considered to be working in degree curriculum until an evaluation and statement of credit has been secured from the registrar's office. All courses taken either at this college or elsewhere must be approved by an official adviser or the Registrar (for those taken elsewhere) in order to be credited toward meeting degree requirements.

Teaching Majors A teaching major consists of a minimum of twenty-four units in a field other than education, at least twelve of which must be in the upper division. A C average in scholarship is required in all upper division courses in the field of the teaching major. A major for special secondary school credential varies from twenty-four to forty units as specified in the requirements for the various curricula. Teaching majors may be established in the following fields: English, foreign languages, general science, mathematics and social sciences (economics, geography, history, political science) and in the special secondary school credential fields of art, business education, music and physical education. Candidates for the teaching major in the field of English are expected to show credit in English 1A, 1B and eight or nine units of elective in lower division; English 130A and 130B and six units of electives in upper division.

Candidates for the teaching major in the field of general science must show the basic requirements in science for the lower division including Geological Science 10A-10B, or a substitute course. The remaining units to complete the major must include a year course in a biological science, or Biological Science 10A-10B is taken in college, a year course in school or college physics and a concentration of twelve units, at least six of which are upper division, in one major subject (botany, chemistry, physics, zoology).

Candidates for the teaching major in the field of the social sciences must show the general requirements of fourteen units of social science in the upper division including Geography 2 and Social Science 1. The remaining twenty units must be chosen so as to include a year course of six units in history in either the lower or upper division and a concentration of twelve units, at least six of which are upper division, in one major subject (economics, geography, history, political science). The following courses may not be applied to the teaching major in social science: Economics 14A-14B, 18A-18B, 140, 160A-160B, 161, 162, 163, 164, 165; Merchandising, all courses.

Teaching Minors A teaching minor consists of twelve units in a given field, at least six of which must be in upper division courses. Teaching minors may be established in the following fields: art, business education, health, foreign language, general science, mathematics, music, social sciences (economics, geography, history, political science) and physical education. Psychology may be used for a teaching minor in preparation for elementary and the special secondary school credentials.

Candidates for the teaching minor in English must show credit in 1A, 1B and three units elected from 2, 3, 4A, 4B, 52A, 52B in the lower division; and units from English 130A or 130B and three units elected from English 101, 117, 130A or 130B in the upper division.

Candidates for a teaching minor in physical education for women must show credit for Physical Education 36A, 36B, 37 or 38A, 38B, 53, and Health Education 2 in the lower division; six units elected from Physical Education 102, 157A, 157B, 158, 160, 161, 164, or 170 in the upper division.

Major and Minor Credential Requirements

1. For the junior high school credential a teaching major and a teaching minor *in subjects taught in a junior high school* are required. A combination of a special secondary school credential with the junior high school credential requires the completion of another teaching major than that required for a special secondary school credential.
2. For the elementary school credential two teaching minors are required.
3. For a special secondary school credential, the completion of the major in the special subject field (see detailed outlines of curricular patterns for credentials) and a teaching minor are required.
4. The State Board of Education has placed a limitation of a maximum of forty units of credit in one subject matter field that may be applied toward the minimum of one hundred and twenty-four units required for the A.B. degree.

Preparation for Graduate Work Students who take the A.B. degree with only a special credential and who contemplate doing graduate work for a master's degree in an academic field at another institution of higher learning, will find it advantageous to use their electives to lay a foundation for that work. A student who plans to do graduate work in a field of his major is advised to so arrange his electives as to complete an equivalent of the liberal arts major to avoid the necessity of making an undergraduate deficiency.

Political Science The course in Political Science 101 or its equivalent is required of all graduates of the college or those securing a teaching credential through the college. The following courses are accepted equivalents: Political Science 113, 152 or 175A-175B; History 171B or 173A-173B.

Upper Division Course Requirements At least 40 units in upper division courses must be completed, 30 of which must be earned after lower division requirements have been satisfied.

Teacher Training Curricula and Teaching Credentials All Teacher Training Curricula leading to the Degree require a minimum of six semester units in education in addition to the general degree requirements previously listed.

A. The college offers curricula leading to the A.B. degree with the following teaching credentials:

1. Elementary school credential authorizing the holder to teach in all subjects in all grades of any elementary school in California.
2. Junior high school credential authorizing the holder to teach in all subjects in the seventh, eighth, and ninth grades of any elementary or secondary school in California. After September 1938, this credential will be issued only in combination with an elementary school credential, one of the special secondary credentials, or in combination with additional course requirements in a teaching major and in education as a preparation for graduate work for the general secondary credential.

3. Special secondary credential in art authorizing the holder to teach art subjects in any grade of the public schools of California.
4. Special secondary credential in business education authorizing the holder to teach commercial subjects in any grade of the public schools of California.
5. Special secondary credential in music authorizing the holder to teach music in any grade of the public schools of California.
6. Special secondary credential in physical education authorizing the holder to teach physical education in any grade of the public schools of California.

The college offers the following credentials to persons meeting the qualifications designated for each:

1. **Diploma of Graduation:** A diploma of graduation carrying with it any of the credentials the college is authorized to grant, or any combination of them, may be granted to the holder of a bachelor's degree from an accredited college, upon the completion of a minimum of twenty-four units. Ordinarily at least one semester of residence during the academic year is required subsequent to securing the degree; the remainder of the work may be in summer session or, in the case of students who had attended the college prior to attaining the degree elsewhere, in credit earned as an upper division student. The candidate for a diploma must meet the equivalent of all of the requirements listed in the curriculum for the A.B. degree with the credential or credentials sought.
2. **Administration and Supervision Credentials:** Candidates desiring to qualify for administration and supervision credentials will meet the credential requirements as outlined in State Department of Education Bulletin No. 12, Regulations Governing Granting of Credentials and Certificates for Public School Service in California. Further information will be furnished by the college upon request by the applicant.
3. **Special Secondary Credentials in Speech Arts and Speech Correction:** These credentials may be secured from the Commission on Credentials upon the recommendation of the candidate by the college. Courses prescribed by the State Board of Education are offered at the college. Candidates are advised to consult with the dean of education before entering upon their preparation for these credentials.

Combination of Credentials In the case of students seeking more than one teaching credential, the curriculum for each credential must be completed in full, with only such exceptions as are indicated in the requirements. For each credential in addition to one, at least twelve additional units of credit must be earned, this work to be in electives in nonprofessional fields only, after the basic curriculum requirements have been satisfied. If the requirements for the general elementary credential and the junior high school credential are completed at the same time, an exception will be made to this rule.

A combination of the elementary school credential with the junior high school credential may be secured by completing the requirements for the elementary school credential, substituting Education 107, *History of Education*, for Education 106, *Philosophy of Education*, and by completing the following additional requirements: (a) a teaching major; (b) a

methods course in the field of the teaching major; (c) a minimum three units of practice teaching in a junior high school or the equivalent; (d) a course in Education 121, *Principles of Secondary Education*.

Limited Electives. Credit for applied and vocational subjects will be allowed in fulfillment of the requirements for the A. B. degree when they are required in any credential pattern completed by the student. A maximum of six units of credit in the following courses may be allowed to fulfill the requirements of any credential pattern only if the student has received permission from the Dean of Education: Art 14A; Accounting 15A, 15B, 16A, 16B, 65A, 65B; Business Economics 1A, 1B; Engineering 22; Journalism 53A, 53B, 153A, 153B; Library Science 10; Merchandising, all courses; Applied Music; Physical Education, all activity courses beyond the requirements specified in curriculum patterns; Secretarial Training, all courses; and all courses which are offered exclusively to Special Non-degree students.

Curricula Leading to Teaching Credentials

A.B. Degree With Elementary School Credential

FRESHMAN YEAR		
First Semester—		Units
6A, Structure	-----	2
Biological Science 10A, ¹ Science of Life	-----	3
English 1A or 1B, ² Freshman English	----- 1 or	3
Geography 1, Elements (Natural Science)	-----	3
Physical Education 1A or 36A	-----	$\frac{1}{2}$
Health Education 1 or 2	-----	2
Electives ^{3, 4}	----- 4 or	2

Second Semester—		
Biological Science 10B, ¹ Science of Life	-----	3
English 1B, 2, 3, 4A, 4B, 52A, 52B, 56A, 56B	-----	3
Geography 2, Regions (Social Science)	-----	3
Music 1A, Music Reading and Ear-training	-----	2
Physical Education 1B or 36B or 36C	-----	$\frac{1}{2}$
Electives ^{3, 4}	-----	5
		<hr/>
		32

SOPHOMORE YEAR		
First Semester—		
English (selected from 2, 3, 4A, 4B, 52A, 52B, 56A, 56B, unless taken in freshman year)	-----	3
Physical Education 1C and 37, Games and Rhythms for the elementary school	-----	$\frac{1}{2}$

Second Semester—		
Physical Education 1D or 38A	-----	$\frac{1}{2}$

Third Semester—		
61A, Elementary Crafts	-----	2
61B, Elementary Crafts	-----	2
Biology 1A or 2A, General	-----	3
General Science 1, Pol., Soc. and Econ. Problems	-----	3
Electives to meet requirements in Natural Science, Social Sciences, and minors ^{3, 4, 5}	----- 18-21	
		<hr/>
		32

Possible substitutions for the requirement in Biological Science 10A-10B.

High school Biology (year course with laboratory work).

Botany 2A-2B and Zoology 1A-1B—16 units.

High school Botany and Zoology 1A-1B.

High school Zoology and Botany 2A-2B.

High school Botany and high school Zoology.

Biological Science 1 and Physical Science 1—6 units.

Depending on result of Subject A test.

Subject Matter Requirements in the Lower Division for total requirements in English, Natural Sciences, and Social Sciences.

Elective minor is English, General Science or Social Sciences.

Units in minor taken in freshman year, none needed in sophomore year.

JUNIOR YEAR

First Semester—

Education 147, Education Practicum—Lower Levels	1
Psychology 102, Genetic	

Second Semester—

Education 108, Educational Measurements	
Education 148, Education Practicum—Upper Levels	1

SENIOR YEAR

First Semester—

Education 116, Practice Teaching ¹	6 or
---	------

Either Semester—

Education 106, ² Philosophy of Education	
Electives including two minors and political science requirement (for the year)	21 or 1

SUMMARY

Art 6A, 61A, 61B	
Education 106, 108, 116, 147, 148	38 or
English	6 or
Health Education 1 or 2	
Music 1A	
*Natural Sciences (incl. Biol. Science 10A-10B and Geog. 1)	
Physical Education 1A-B-C, 37 or 36A-36B, 37, 38A	
Political Science 101	
Psychology 1A or 2A, 102	
**Social Sciences (including Social Science 1 and Geography 2)	
Electives, including two teaching minors	32 or

¹ Candidates for the Elementary School Credential in combination with any other type of credential are required to do not less than 6 units of practice teaching in the elementary school.

² Education 107, History of Education, may be substituted for Education 106, Philosophy of Education with the approval of the Dean of Education.

* See page 24.

** See page 24.

B. degree with Junior High School credential Note: After September 15, 1938, the Junior High School credential will be issued only in combination with one of the other teaching credentials, or with the additional courses in Education and the major subject field required as preparation for graduate work and the general secondary credential.

FRESHMAN YEAR

1st Semester—

	Units
Biological Science 10A, ¹ Science of Life-----	3
English 1A or 1B ² -----	1 or 3
Geography 1, Elements (Natural Science)-----	3
Physical Education 1A or 36A-----	$\frac{1}{2}$
Health Education 1 or 2-----	2
Electives, ³ including major and minor ⁴ -----	6 or 4

2nd Semester—

Biological Science 10B ¹ Science of Life-----	3
English 1B or 2, 3, 4A, 4B, 52A, 52B, 56A, 56B-----	3
Geography 2, Regions (Social Science)-----	3
Physical Education 1B or 36B-----	$\frac{1}{2}$
Electives, ³ including major and minor ⁴ -----	7
	<hr/> 32

SOPHOMORE YEAR

1st Semester—

English (selected from 2, 3, 4A, 4B, 52A, 52B, 56A, 56B, unless taken in freshman year)-----	3
Physical Education 1C or 38A-----	$\frac{1}{2}$
Biology 1A or 2A, General-----	3

2nd Semester—

Physical Education 1D or 38B-----	$\frac{1}{2}$
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3rd Semester—

Physical Science 1, Pol., Soc. and Econ. Problems-----	3
Electives, ³ including major and minor ⁵ (for the year)-----	22-25
	<hr/> 32

JUNIOR YEAR

1st Semester—

Education 108, Educational Measurements-----	3
Education 125, ⁶ Elementary School Curriculum-----	3
Physical Science 101, American Institutions (or substitute)-----	2
Biology 102, Genetic-----	3

Permissible substitutions for the requirements in Biological Science 10A-10B.

High school Biology (year course with laboratory work).

Botany 2A-2B and Zoology 1A-1B—16 units.

High school Botany and Zoology 1A-1B.

High school Zoology and Botany 2A-2B.

High school Botany and high school Zoology.

Biological Science 1 and Physical Science 1—6 units.

Depending on result of Subject A test.

Subject Matter Requirements in the Lower Division for total requirements in English, Natural Sciences, and Social Sciences.

If minor is English, General Science or Social Science.

Units in minor taken in freshman year, none needed in sophomore

required if student is meeting requirements for elementary credential

Second Semester—

Education 116, Practice Teaching-----

Either Semester—

Methods course in the Field of Academic Major-----

Health Education 151-----

Electives, including major and minor (for the year)-----

SENIOR YEAR**First Semester—**

Education 116, Practice Teaching-----

Second Semester—

Education 121, Principles of Secondary Education-----

Either Semester—

Education, elective-----

Electives, including major and minor¹ (for the year)-----**SUMMARY**

Education 108, 116, 121, 125, Methods Courses in the Field of
Academic Major, and elective in Education-----

English-----6 or

Health Education 1 or 2; 151-----

* Natural Sciences (including Biological Science 10A-10B and
Geog. 1)-----

Physical Education 1A-B-C-D or 36A-36B, 38A-38B-----

Political Science 101-----

Psychology 1A or 2A, 102-----

** Social Sciences (including Social Science 1 and Geography 2)-----

Electives, including teaching major and minor-----56 or

Combination of the Junior High School Credential with Preparation for the General Secondary School Credential Students who will prepare for graduate work in Education and the general secondary school credential must, in addition to the courses outlined for the junior high school credential, complete a minimum of 24 units of work in Education, including Education 107 and 130; in the teaching major field division courses totaling 18-24 units approximating a liberal arts education must be completed.

¹ If 6 units in minor taken in junior year, none needed in senior year

* See page 24.

** See page 24.

1. Degree With Special Credential in Art. This course leads to the 2. degree and to the Special Secondary Credential in Art which entitles the holder to teach art in senior high, junior high, and elementary schools.

LOWER DIVISION

	Units
Aesthetics 50, History and Appreciation of Art (unless Aesthetics 50 is taken in the upper division)-----	2
6A-6B, Structure-----	4
61A, 61B, Elementary Crafts-----	4
Education 19, Art in the Elementary School-----	2
English 1A, ¹ 1B, 2, 3, 4A, 4B, 52A, 52B, 56A, 56B-----	6 or 7
Health Education 1 or 2-----	2
Natural Sciences-----	12-14
Physical Education 1A-1B, 1C-1D (men); 36A-36B, 38A-38B (women)-----	2
Psychology 1A or 2A, General-----	3
Social Sciences, including Social Science 1, Political, Social and Economic Problems-----	8-14
Electives, including additional art for major and courses for teaching minor ² -----	10-19
	<hr/> 64

UPPER DIVISION

Education 116, Practice Teaching (4 units in special field)-----	6
Education 119, Art in the Junior High School-----	2
Education 121, Principles of Secondary Education-----	3
Education 125, ³ Elementary School Curriculum-----	3
Education elective (suggested: Education 106 or 108 or 130)-----	3
Physical Science 101, American Institutions (or substitute)-----	2
Electives, including additional art and teaching minor-----	41
	<hr/> 60

SUMMARY

Aesthetics 50 or 150-----	2
Art major-----	40 ⁴
Education-----	19
English-----	6 or 7
Health Education 1 or 2-----	2
Natural Sciences-----	14
Physical Education-----	2
Physical Science 101, American Institutions-----	2
Psychology 1A or 2A-----	3
Social Sciences (including Social Science 1)-----	14
Electives, including teaching minor-----	19-20
	<hr/> 124

¹ Depending on result of Subject A test.

² Unless minor is English, General Science, or Social Science.

³ Not required if student is meeting requirements for elementary credential also.

⁴ Maximum credit allowable in art.

See Subject Matter Requirements in the Lower Division.

See page 24.

See page 24.

A.B. Degree With Special Credential in Business Education
 course leads to the A.B. degree and to the Special Secondary Credential in Business Education, which entitles the holder to teach business subjects in senior high and junior high schools.

In addition to the following academic requirements, satisfactory evidence of one-half year, or 1000 hours of approved experience in the field named in the credential must be submitted. For the credentials in the General Business Subfield twelve semester hours of work above the requirement for a bachelor's degree may be offered in lieu of the six months of full-time experience. At least six semester hours of the twelve must be in business or economics.

Accounting and Secretarial Subfields

LOWER DIVISION

Economics 1A-1B, Principles-----
 Economics 2, Mathematics of Finance-----
 Economics 14A-14B, Accounting-----
 English 1A, Freshman English, or elective¹-----
 Geography 1, Elements (Natural Science)-----
 Geography 2, Regions-----
 *Natural Sciences -----
 Physical Education 1A-1B, 1C-1D (men), or 36A-36B, 38A-38B (women) -----
 Psychology 1A or 2A, General-----
 Secretarial Training A, Business Mathematics-----
 Secretarial Training 1A-1B, Typewriting-----
 Secretarial Training 5A-5B, Stenography-----
 Secretarial Training 10A, English in Business-----
 Social Science 1, Pol., Soc. and Econ. Problems-----
 Speech Arts 1A, Fundamentals of Public Speaking-----

UPPER DIVISION

Economics 18A-18B, Commercial Law-----
 Economics 100, Modern Economic Thought, or Economics 102, Theories of Social Control, or course in Consumer Economics or Economics 111, Economic History of the United States-----
 Economics 121, Business Administration -----
 Economics 140, Statistical Methods-----
 Economics 160A-160B, Advanced Accounting-----
 Economics 161, Cost Accounting-----
 Economics 163, Machine Accounting-----
 Education 116, Practice Teaching -----
 Education 121, Principles of Secondary Education-----
 Education 130, Educational Psychology -----
 Education 160, Commercial Education -----
 Education 163, Stenography -----
 Education 164, Bookkeeping -----
 Education 165, Typewriting -----
 Geography 141, Economic Geography, or a course in Foreign Trade
 Political Science 101, American Institutions (or substitute)-----
 Secretarial Training 3A, Office Methods and Appliances-----
 Secretarial Training 6A, Advanced Stenography-----
 Electives other than Commerce and Economics-----

¹ Depending on result of Subject A test.

* See page 24.

he Secretarial subfield only is elected, Economics 2 and Education and all upper division courses in accounting may be omitted, but 12 s in upper division courses in economics and commerce, other than e listed above, must be included.

he accounting subfield is elected, Secretarial Training 5A-5B and eation 163, 165 may be omitted.

General Business Subfield

LOWER DIVISION

	Units
Economics 1A-1B, Principles -----	6
Economics 2, Mathematics of Finance -----	3
Economics, 14A-14B, Accounting -----	6
Economics 18A-18B, Commercial Law -----	6
English 1A, Freshman English, or elective ¹ -----	1
Geography 1, Elements (Natural Science) -----	3
Geography 2, Regions -----	3
Merchandising 26, Salesmanship -----	2
Merchandising 27, Advertising -----	2
Natural Sciences -----	11
Physical Education 1A-1B, 1C-1D (men), or 36A-36B, 38A-38B (women) -----	2
Psychology 1A or 2A, General -----	3
Secretarial Training A, Business Mathematics -----	1
Secretarial Training 1A-1B, Typewriting -----	6
Secretarial Training 10A, English in Business -----	3
Social Science 1, Pol., Soc. and Econ. Problems -----	3
Speech Arts 1A, Fundamentals of Public Speaking -----	3
	<hr/> 64

UPPER DIVISION

Economics 100, Modern Economic Thought, or a course in Consumer Economics or Economics 102, Contemporary Theories of Social Control -----	3
Economics 121, Business Administration -----	3
Economics 135, Money and Banking -----	3
Economics 140, Statistical Methods -----	3
Economics 163, Machine Accounting -----	3
Education 116, Practice Teaching -----	6
Education 121, Principles of Secondary Education -----	3
Education 130, Educational Psychology -----	3
Education 160, Commercial Education -----	2
Education 161, Junior Business Training -----	2
Education 165, Typewriting -----	2
Geography 141, Economic Geography, or a course in Foreign Trade -----	3
Natural Science 101, American Institutions (or substitute) -----	2
Electives (including a minimum of 5 units in the upper division, units of which must be in Commerce) -----	22
	<hr/> 60

depending on result of Subject A test.
page 24.

Merchandising Subfield

LOWER DIVISION

Economics 1A-1B, Principles -----
Economics 14A-14B, Accounting -----
English 1A, Freshman English, or elective -----
Geography 1, Elements (Natural Science) -----
Geography 2, Regions -----
Natural Sciences -----
Physical Education 1A-1B, 1C-1D (men),
or 36A-36B, 38A-38B (women) -----
Secretarial Training A, Business Mathematics -----
Secretarial Training 2A, Typewriting -----
Secretarial Training 10A, Business Correspondence -----
Speech Arts 1A, Fundamentals of Public Speaking -----
Merchandising 24A, Principles -----
Economics 18A-18B, Commercial Law -----
Social Science 1, Pol., Soc. and Econ. Problems -----
Psychology 2A -----
Elective -----

UPPER DIVISION

Economics 100, 102 or 111 -----
Economics 121, Business Administration -----
Economics 140, Statistical Methods -----
Education 116, Practice Teaching -----
Education 130, Educational Psychology -----
Education 160, Commercial Education -----
Education 121, Principles of Secondary Education -----
Education 166, Merchandising -----
Geography 141, Economic Geography or a course in Foreign Trade
Political Science 101, American Institutions or substitute -----
Merchandising 24B, Store Management -----
Merchandising 25, Salesmanship -----
Merchandising 26, Applied Salesmanship -----
Merchandising 27, Advertising -----
Elective, upper division courses in Commerce -----
Elective -----

Degree With Special Credential in Music This course leads to the degree with a Special Secondary Credential in Music which entitles holder to teach music in senior high, junior high, and elementary schools.

LOWER DIVISION

	Units
Methods 1A-1B, Survey of Music-----	4
Education 17, ¹ Music in the Elementary School (sophomore year)---	2
English 1A, ² 1B, 2, 3, 4A, 4B, 52A, 52B, 56A, 56B-----	6 or 7
Health Education 1 or 2-----	2
Natural Sciences ³ -----	12-14
Physical Education 1A-1B, 1C-1D (men); 36A-36B, 38A-38B ¹ (women) -----	2
Psychology 1A or 2A, General-----	3
Natural Sciences, ³ including Social Science 1, Political, Social and Economic Problems -----	8-14
Preparation for major (see below) and electives, including course for a teaching minor ⁴ -----	16 or 25
	<hr/> 64

UPPER DIVISION

Methods 102A-102B, History of Music-----	2
Education 116, Practice Teaching (at least 4 units in Music)-----	9
Education 121, Principles of Secondary Education-----	3
Education 127, Music in the Secondary School-----	2
Education 145, Org. and Adm. of Music Education-----	2
Physical Science 101, American Institutions (or substitute)-----	2
Preparation for major (see below) and electives, including courses for a teaching minor ⁴ -----	40
	<hr/> 60

MUSIC

Human Year:	
Music Reading and Ear Training-----	2
Sophomore Year:	
102, Music Reading and Ear Training-----	4
103, Elementary Harmony -----	6
Jr and Senior Years:	
105B, Advanced Harmony -----	6
106B, Applied Harmony -----	6

APPLIED MUSIC ⁵

16. A, B, C, D, Orchestral Instruments ⁶ (including 19 or 119, and D, Instrumental Music, Advanced)-----	6
17. A, B, C, D, Voice ⁶ (including 20A, 20B, Vocal Music)---	6
18. A, B, C, D, Piano ⁶ -----	4
	<hr/> 40

¹ Also a candidate for a General Elementary School Credential, depending on result of Subject A test.

² page 24.

³ Major and Minor requirements, pages 27 and 28.

⁴ page 100.

⁵ ss exempted by examination.

SUMMARY

Aesthetics	-----	U
Education	-----	1
English	-----	6 or
Health Education 1 or 2	-----	
Music major	-----	4
Natural Sciences	-----	1
Physical Education	-----	
Political Science 101, American Institutions	-----	
Psychology 1A or 2A	-----	1
Social Sciences	-----	1
Electives, including a teaching minor	-----	16 or 1
		12

¹ Maximum credit allowable in music for degree.

. Degree With Special Credential in Physical Education This course leads to the A.B. degree and to the Special Secondary Credential in Physical Education which entitles the holder to teach physical education in senior high, junior high, and elementary schools.

MEN

LOWER DIVISION

	Units
Science 10A-10B, Science of Life (unless taken as a year course in high school with at least a grade of B)-----	6
or	
ogy 1A, General-----	4
lish 1A, ¹ 1B, 2, 3, 4A, 4B, 52A, 52B, 56A, 56B-----	6 or 7
th Education 1-----	2
tural Sciences -----	5 or 7
Physical Education:	
A-1B, 1C-1D -----	2
A, Tennis -----	$\frac{1}{2}$
, Emergencies -----	1
2A, 62B, Gymnastic Activities-----	4
, Playing Rules of Modern Games-----	1
, Principles -----	2
ports and Athletics ² -----	3
hology 1A or 2A, General-----	3
Cross Swimming Test-----	$\frac{1}{2}$
ial Sciences, including Social Science 1, Political, Social and Economic Problems -----	14
ch Arts 1A, Fundamentals of Public Speaking-----	3
ogy 20, Anatomy and Physiology-----	3
tives, including courses to meet minor requirements ³ -----	7-8
	64

UPPER DIVISION

ation 116, Practice Teaching -----	6
ation 121, Principles of Secondary Education-----	3
ation 125, Elementary School Curriculum-----	3
ation, elective -----	6
th Education 151-----	2
Physical Education:	
4, Organ. and Admin. of Physical Education-----	2
5, Applied Anatomy -----	2
3A-156B, Sports Methods-----	4
3, Technique of Officiating-----	2
3, Technique of Teaching Activities-----	2
1, Community Recreation -----	2
3, Theory of Coaching Football-----	2
ports and Athletics ² -----	3
depending on result of Subject A test.	
majoring in Physical Education must actively participate in three	
ts each year.	
ess minor is English, General Science, or Social Science.	
Subject Matter Requirements in the Lower Division.	

MEN—Continued

UPPER DIVISION—Continued

Political Science 101, American Institutions (or substitute)-----	1
Psychology 102, Genetic (first semester, junior year)-----	6
Zoology 114A, Genetics -----	1
Electives -----	6

SUMMARY

Education -----	1
English -----	6 or
Health Education -----	
Speech Arts 1A-----	
*Natural Sciences (including Biol. Science 10A-10B or substitute and Zoology 20)-----	1
Physical Education major-----	3
Political Science 101, American Institutions-----	
Psychology -----	
**Social Sciences (including Social Science 1)-----	1
Zoology 114A -----	
Electives, including teaching minor-----	21-2

12

* See page 24.

** See page 24.

WOMEN

LOWER DIVISION

	Units
hetics 1A, Survey of Music-----	2
Science 10A-10B, Science of Life (unless taken in high school) or	6
ogy 1A, General-----	4
lish 1A, ¹ 1B, 2, 3, 4A, 4B, 52A, 52B, 56A, 56B-----	6 or 7
th Education 2-----	2
tural Sciences-----	5-7
Physical Education:	
A, Fundamental Skills-----	$\frac{1}{2}$
B, Folk Dancing-----	$\frac{1}{2}$
C, Rhythmic Skills-----	$\frac{1}{2}$
, Games and Rhythms for the Elementary School-----	$\frac{1}{2}$
B, Sports and Dancing-----	$\frac{1}{2}$
, Physical Education in the Elementary School-----	2
, Social Dancing-----	$\frac{1}{2}$
C Life Saving-----	$\frac{1}{2}$
, Tennis-----	$\frac{1}{2}$
, Golf-----	—
, Archery-----	$\frac{1}{2}$
hology 1A or 2A, General-----	3
ology 50, General-----	3
or	
ropology 54, Social-----	3
ial Sciences, including Soc. Science 1, Political, Social and Economic Problems-----	5-11
h Arts-----	3
ogy 20-----	3
ives, including teaching minor ² -----	11 $\frac{1}{2}$ -18 $\frac{1}{2}$

63 $\frac{1}{2}$

UPPER DIVISION

ation 108, Educational Measurements-----	3
ation 116, Practice Teaching-----	6
ation 121, Principles of Secondary Education-----	3
ation 125, Elementary School Curriculum-----	3
ation 106, Philosophy-----	
or	
ation 140, Educational Statistics-----	
or	
ation 142, Educational Sociology-----	3
h Education 151-----	2
Physical Education:	
, Emergency and Safety Programs-----	1
, Administration of Secondary Physical Education-----	2
, Applied Anatomy-----	2
A-157B, Sports Methods-----	4
, Stunts and Tumbling-----	$\frac{1}{2}$

ending on result of Subject A test.

ss minor subject is English, general science, or social science.

Subject Matter Requirements in the Lower Division.

WOMEN—Continued

UPPER DIVISION—Continued

Physical Education—Continued

160 Principles of Teaching Gymnastics	-----
161 Folk Dancing	-----
164A-164B, Advanced Dancing	-----
168, Physiology of Exercise	-----
169, Technique of Teaching Activities	-----
170, Recreational Leadership	-----
173, Principles of Physical Education	-----
177, Individual Program Adaptations	-----
185, Techniques of Individual Sports	-----
Political Science 101, American Institutions (or substitute)	-----
Psychology 102, Genetic (first semester, junior year)	-----
Upper Division Zoology	-----
Additional Course in Upper Division Zoology, or other subject for minor ¹	-----

SUMMARY

Aesthetics	-----
Education	-----
English	-----6 or
Health Education	-----
*Natural Sciences (including Biological Science 10A-10B or substitute, and Zoology 20)	-----
Physical Education major	-----
Political Science 101, American Institutions	-----
Psychology	-----
**Social Sciences (including Social Science 1 and Sociology 50 or Anthropology 54)	-----
Speech Arts	-----
Zoology (upper division)	-----3
Electives, including a teaching minor unless Zoology is chosen	-----11½

¹ If another subject is chosen the program must be arranged to include a total of 6 units of upper division work in that subject.

* See page 24.

** See page 24.

THE BACHELOR OF EDUCATION DEGREE

General Requirements

The Bachelor of Education Degree will be granted upon the successful completion of 124 semester hours of college or university work or the equivalent. Of this total requirement at least 106 semester hours of work must be completed in regular campus classes, extension classes, or in correspondence courses under college or university direction; and not more than eighteen semester hours of credit may be allowed for experiences and activities that can be evaluated as equivalent to regular academic work.

Residence Requirements

Twenty-four semester hours of work completed in the State Colleges of California will be accepted as satisfying residence requirements, provided that at least twelve units of this work has been completed at the San Francisco State College subsequent to June 1, 1934, and provided that not more than six units of the remaining twelve may be taken in extension courses.

Purpose of the Degree

The establishment of this degree provides an opportunity for improving professional training of those teachers who are now in service and who do not meet the standards of training at present required of new people entering the teaching profession.

This degree is professional in character and is not intended to qualify graduates for graduate standing in the universities.

The following classes of teachers are eligible for candidacy for the Bachelor of Education Degree:

Graduates of the 2-year, 2½-year, or 3-year curricula of the California State colleges when these institutions were normal schools or teachers colleges, who have had five or more years of teaching experience. Holders of California life diplomas or those who have taught five or more years in the public schools of California.

Course of Work and Fields of Study

Candidates will take academic courses designed to strengthen them in those fields of knowledge in which their initial training is inadequate. Professional courses in education will be included to qualify candidates to teach the newer curricula by means of the newer methods. All work will as far as possible be provided in classes for mature and experienced teachers.

Each candidate for the Bachelor of Education degree must include in last 60 semester hours of credit earned a minimum of six semester hours in each of three of the following six fields of knowledge.

1. Professional courses
2. Social sciences
3. Natural science
4. Psychology and philosophy
5. Fine arts and literature
6. Physical education, hygiene, and recreation

Effective Dates of the Bachelor of Education Curriculum

The operation of this curriculum shall not extend beyond February 1948. All applications for candidacy must be filed and at least six semester hours of work completed before February 1, 1942. All the requirements must be completed and the degree conferred prior to February 1, 1948.

Application for Candidacy

Anyone desiring to establish candidacy for this degree should secure application blank from the Registrar's office. An evaluation of record cannot be made until the application blank has been entirely filled out and filed with complete transcripts of academic record. A two-dollar evaluation fee must accompany each application. Applications should be filed well in advance of the time of anticipated enrollment.

PREPROFESSIONAL CURRICULA

Prelegal Curricula

(Two-Year, Three-Year and Four-Year Curricula)

) The entrance requirements of law colleges range from two years to three and four years of prelegal work. The lower division requirements of the liberal arts curricula should be met in full whether the curriculum extends over a period of two, three or four years.

) The following lower division electives meet the recommendations of standard American law colleges for a broad and liberal education in those fields of human knowledge commonly involved in human affairs and those which have cultural and disciplinary values: History 4A-4B, 6 units; Economics 1A-1B, 6 units; Economics 14A-14B, 6 units; Sociology 50, 3 units; Political Science 1A-1B or Political Science 71A-71B, 6 units; Speech Arts 1B, 3 units; English 52A-52B, 6 units; Psychology 1A, or 2A, 3 units; Psychology 4A, 2 units; Philosophy 5A-5B, 6 units. Liberal arts subjects similar to those offered in law colleges should ordinarily be omitted from the prelegal curricula.

The three-year prelegal curriculum requires the completion of 93 units of work. Some of the introductory courses should be continued in the upper division if the student is to acquire mastery and confidence in any field. The following are listed as examples of upper division courses that meet the needs of general study in the three-year or the four-year curriculum. History 111A-111B, or 121A-121B, 6 units; History 151A-151B, 6 units; History 171A-171B, 6 units; Economics 102, 3 units; Economics 121 or Economics 122, 3 units; Economics 133, 3 units; Economics 135, 3 units; Economics 171, 3 units; Political Science 111, 3 units; Political Science 113, 3 units; Speech Arts 101B or 1B, 3 units; Philosophy 120, 3 units.

The four-year curriculum requires the completion of 124 units of work. A student who is pursuing a four-year prelegal curriculum must major in a specific field in his junior and senior years and must meet all upper division requirements for the A.B. Degree in the liberal arts curricula.

Secondary Curriculum

(Four-Year Curriculum)

Completion of the requirements of this curriculum enables the graduate to satisfy the undergraduate requirements for the general secondary teaching credential, which, with graduate work, will enable the holder to teach in junior high school or junior college.

The lower division requirements of the liberal arts curricula should be met in full.

This curriculum requires the completion of 124 units of work. In arranging his program to meet the upper division requirements for the

A.B. Degree in the liberal arts curricula, the student should include a major in a subject or field of subjects usually taught in high school and a minor in the field of education chosen from the following courses: Ed. 121,* Principles of Secondary Education; Ed. 122,* Philosophy of Education; Ed. 107,* History of Education; Ed. 108,* Comparative Education; Ed. 130,* Educational Psychology; Ed. 131,* Elementary Educational Statistics; Ed. 142, Educational Sociology; Psychology 102,* Genetic. In order to conform to the usual university requirements, this minor should include the courses marked with an asterisk.

Curricula Preliminary to Journalism

A broad, cultural education, and specific information and understanding in fields with which the journalist is largely concerned, are essential to effective training for journalism.

(Two-Year and Four-Year Curricula)

- (a) The two-year and four-year curricula demand the completion of the lower division requirements of the liberal arts curricula in full.
- (b) The program of elective and required subjects in the lower division should include the following subjects: History 4A-4B, or 8A-8B, 6 units; Economics 1A-1B, 6 units; Political Science 1A-1B, 6 units; Psychology 1A, 3 units; Psychology 4A, 2 units; English 1B-2 or 106A-106B, 6 units; French or German, 9 units (this requirement may be satisfied in the high school); Journalism 51A-51B, 6 units; Journalism 53A-53B, 2-6 units.
- (c) A student who desires to build a broad foundation for graduate work in journalism is required to complete 124 units of work. He must major in a specific field, preferably English, history or economics, in his junior and senior years and must meet all upper division requirements for the A.B. Degree in the liberal arts curricula.
- (d) The program of elective and required subjects in the upper division should include as many of the following subjects as possible: English 106A-106B, or 107A-107B, 4 units; English 130A-130B, 6 units; Economics 100, 3 units; History 145A-145B, or 146A-146B, 6 units; History 171A-171B, or 173A-173B, 6 units; Political Science 111, 3 units; Political Science 113, 3 units; Journalism 100, 3 units; Journalism 153A-153B, 2-6 units.

Preoptometry Curriculum

(Two-Year Curriculum)

The following subjects should be completed in high school: elementary algebra 1 (year) unit; plane geometry, 1 unit; algebraic theory, $\frac{1}{2}$ -unit; trigonometry, $\frac{1}{2}$ -unit; physics, 1 unit; chemistry, 1 unit; foreign language, 3 units.

- (a) The lower division requirements of the liberal arts curricula should be met in full.
- (b) The program of elective and required subjects in the lower division should include Chemistry 1A-1B, 10 units; English 1B-2 or 106A-106B, 6 units; Mathematics 3A, or equivalent, 3 units; Physics 2A-2B, 6 units; Physics 3A-3B, 2 units; Psychology 1A, 3 units; Zoology 101, 3 units. Recommended: Mathematics 3B and 4A, Chemistry 101.

Pharmacy Curriculum

(Two-Year Curriculum)

The following subjects should be completed in high school: elementary algebra, 1 (year) unit; plane geometry, 1 unit; physics, 1 unit or algebraic geometry, $\frac{1}{2}$ -unit and trigonometry, $\frac{1}{2}$ -unit; chemistry, 1 unit; biology, 1 unit; German or French, 2 units; Latin, 2 units.

The lower division requirements of the liberal arts curricula should be met in full.

The program of elective and required subjects in the lower division should include Chemistry 1A-1B, 10 units; Botany 2A-2B, 8 units; German A-B, 10 units; Mathematics D, 1 unit, or equivalent; Mathematics C, 2 units, or equivalent; Chemistry 8-9, 6 units; Chemistry 105A-105B, 6 units; Chemistry 7-8, 6 units; Physics 2A-2B, 6 units; Physics 3A-3B, 2 units.

Medical Curriculum

The entrance requirements of medical colleges ordinarily range from three to four years of premedical work. The lower division requirements of the Liberal Arts curricula include the general requirements of standard medical colleges and should therefore be met in full whether the curriculum extends over a period of three or of four years. However, a student who has definitely decided not to become a candidate for a degree in San Diego State College may substitute the lower division requirements of the institution to which he expects to transfer in place of the following courses marked with an asterisk. All plans for premedical work should include an arrangement of courses to meet the requirements of the medical college to which the student expects to enter.

A student who is pursuing a four-year premedical curriculum should major in chemistry or zoology in his junior and senior years, and must meet all lower division requirements for the A.B. Degree in the Liberal Arts curricula.

The following subjects should be completed in high school: elementary algebra, 1 (year) unit; plane geometry, 1 unit; chemistry, 1 unit; physics, 1 unit; French or German, 2 or 3 units. Two units of Latin are recommended.

Following is a recommended arrangement of courses:

FRESHMAN YEAR	UNITS		SOPHOMORE YEAR	UNITS	
Physical Education-----	$\frac{1}{2}$	$\frac{1}{2}$	Physical Education-----	$\frac{1}{2}$	$\frac{1}{2}$
Math Education-----	2	--	Zoology 1A-1B-----	4	4
Chemistry 1A-1B-----	5	5	Chemistry 7-8-----	3	3
French 1B and 2 or 3-----	3	3	*Social Science Year		
French or German (if			Course -----	3	3
needed to meet require-			*Psychology 1A-----	3	--
ment) ¹ -----	3-5	3-5	*Social Science 1-----	--	3
Electives -----	0-2	2-5	*Additional Year Course ²	3	3
	<hr/>			<hr/>	
	15 $\frac{1}{2}$	16 $\frac{1}{2}$		16 $\frac{1}{2}$	16 $\frac{1}{2}$

¹Lower division requirements, page 23.

²German if the major is Chemistry.

Mathematics 1A-1B if the major is Chemistry.

JUNIOR YEAR	UNITS	SENIOR YEAR	UNITS
Political Science 101-----	2	Upper division require-	
Physics 2A-2B-----	3	ments and electives for	
Physics 3A-3B-----	1	the major, the minors	
Chemistry 105-----	3	and the degree (see	
Zoology 100-----	4	pages 25, 63 and 67---	15
Zoology 106-----	4		
Electives -----	4		15
	15		15

Prenursing Curriculum

A student who plans to complete a curriculum in nursing leading degree and a certificate in nursing in another collegiate institution should ascertain the lower division (junior certificate) requirements of that institution. The lower division requirements of the institution to which student will transfer may be substituted for the following courses marked with an asterisk wherever the requirements differ.

The following subjects should be completed in high school: elementary algebra, 1 (year) unit; plane geometry, 1 unit; chemistry, 1 unit; physics, 1 unit; French or German, 2 or 3 units, 2 units of Latin are recommended. The following is a recommended arrangement of courses:

FRESHMAN YEAR	UNITS	SOPHOMORE YEAR	UNITS
Physical Education-----	$\frac{1}{2}$ $\frac{1}{2}$	Physical Education-----	
Health Education-----	2	Psychology 1A-1B-----	3
Chemistry 1A-1B-----	5	Economics 1A-1B-----	3
Zoology 20-----	3	Bacteriology ¹ -----	4
English 2B and 2 or 3----	3	*Social Science 1-----	3
*French or German (if		*Additional Year Course--	3
needed to complete re-		Electives -----	
quirement) -----	3-5 3-5		
*Electives -----	1-3 0-2		16
	16 $\frac{1}{2}$ 16 $\frac{1}{2}$		

Predental Curriculum

Candidates for a degree in dentistry should ascertain the entrance requirements of the dental college to which they expect to transfer and make whatever changes in the following typical requirements that seem desirable in satisfying the requirements of the dental college.

The following subjects should be completed in high school: elementary algebra, 1 (year) unit; plane geometry, 1 unit; trigonometry, 1 unit; chemistry, 1 unit; physics, 1 unit; foreign language, 3 or 4 units.

* See lower division requirements for junior standing (junior certificate) page 23.

¹ Not offered in the regular session; may be taken in the summer session of 1938 and alternate years.

FRESHMAN YEAR		UNITS	SOPHOMORE YEAR		UNITS
Physical Education--	$\frac{1}{2}$	$\frac{1}{2}$	Physical Education-----	$\frac{1}{2}$	$\frac{1}{2}$
Health Education---	2	--	Chemistry 7-8-----	3	3
Chemistry 1A-1B----	5	5	Physics 2A-2B-----	3	3
Biological Sci. 10A-			*Social Science Year		
10B or Zoology 1A-			Course-----	3	3
B -----	3-4	3-4	*Psychology 2A -----	3	--
English 1B and 2 or			*Social Science 1-----	--	3
-----	3	3	*Additional Year Course--	3	3
Foreign language (if					
needed to complete					
requirement) ¹ ----	3	3			
Electives -----	--	0-2			
	$16\frac{1}{2}$ - $17\frac{1}{2}$	$15\frac{1}{2}$ - $16\frac{1}{2}$			

The following subjects should be completed in high school: elementary algebra, 1 (year) unit; plane geometry, 1 unit; algebraic theory, $\frac{1}{2}$ unit; trigonometry, $\frac{1}{2}$ unit; solid geometry, $\frac{1}{2}$ unit; chemistry, 1 unit; physics, 1 unit; mechanical drawing, 1 unit; foreign language, 2 units.

dents should ascertain the lower division requirements of the agricultural college they expect to enter.

Curricula in Plant and Animal Sciences and in Forestry

FRESHMAN YEAR		UNITS
Physical Education	-----	$\frac{1}{2}$
Health Education	-----	$\frac{2}{2}$
Chemistry 1A-1B ³	-----	$\frac{5}{5}$
Physics 2A-2B	-----	$\frac{4}{4}$
Statistics 2A-2B ²	-----	$\frac{3}{3}$
Electives	-----	$\frac{2}{4}$
		<hr/>
		$16\frac{1}{2}$ $16\frac{1}{2}$

ditional foreign language may be substituted for physics if necessary
satisfy lower division requirements in foreign language.

foreign language if not taken in high school.

SOPHOMORE YEAR

Plant Science			Animal Science		
	UNITS				UN
Physical Education-----	$\frac{1}{2}$	$\frac{1}{2}$	Physical Education-----		$\frac{1}{2}$
Economics 1A-1B-----	3	3	Economics 1A-1B-----		3
Chemistry 7-8-----	3	3	Chemistry 7-8-----		3
Geology 1A-----	4	--	Geology 1A-----		4
Bacteriology 1 (summer session)-----	--	4	Bacteriology 1 (summer session)-----		--
Zoology 1A-----	4	--	Zoology 1A-1B-----		4
Botany 7-----	--	4	Zoology 100-----		--
Electives-----	2	2			
	<hr/> 16 $\frac{1}{2}$ 16 $\frac{1}{2}$ <hr/>				14 $\frac{1}{2}$

Forestry

	UN
Physical Education-----	$\frac{1}{2}$
Economics 1A-1B-----	3
English 1B and 2 or 3, or Speech Arts 1A-1B-----	3
Mathematics 1A-1B-----	3
Surveying 1A-1B-----	3
Botany 7-----	--
Geology 1A-----	4
	16 $\frac{1}{2}$

Preengineering Curricula

The following subjects should be completed in high school: elementary algebra, 1 (year) unit; plane geometry, 1 unit; algebraic theory, $\frac{1}{2}$ unit; solid geometry, $\frac{1}{2}$ unit; trigonometry, $\frac{1}{2}$ unit; chemistry, 1 unit; physics, 1 unit; mechanical drawing, 1 unit.

Students should ascertain the requirements of the engineering college they expect to enter.

The following arrangement of courses is recommended:

Mechanical, Electrical, Civil and Mining Engineering

FRESHMAN YEAR		UN
Physical Education-----		
Health Education 1-----		--
Mathematics 3A-3B-----		3
Chemistry 1A-1B-----		5
Physics 1A-1B-----		3
*Geology 1A or elective-----		4
Electives-----		
		15

* Geology 1A is required in the civil engineering curriculum.

Chemical and Electrical Engineering

	SOPHOMORE YEAR	UNITS	
Engineering 1A	-----	3	---
Engineering 21	-----	3	---
Engineering 22	-----	---	3
Engineering 23	-----	---	2
Chemematics 4A-4B	-----	3	3
Chemematics 119	-----	---	3
Physical Education	-----	$\frac{1}{2}$	$\frac{1}{2}$
Physics 1C-1D	-----	3	3
Electives	-----	3	2
		<hr/> 15 $\frac{1}{2}$	<hr/> 16 $\frac{1}{2}$

Civil Engineering

	SOPHOMORE YEAR	UNITS	
Economics 3	-----	---	2
Engineering 1A-1B	-----	3	3
Engineering 21	-----	3	---
Engineering 23	-----	---	2
Engineering 25	-----	---	3
Engineering 28	-----	3	---
Chemematics 4A-4B	-----	3	3
Physical Education	-----	$\frac{1}{2}$	$\frac{1}{2}$
Physics 1C-1D	-----	3	3
		<hr/> 15 $\frac{1}{2}$	<hr/> 16 $\frac{1}{2}$

Curriculum Preliminary to Social Service

The preprofessional curriculum in social service prepares for admission to graduate work in recognized American schools of social work. This curriculum should be pursued by those who plan careers in federal, state or local welfare work; social work in public schools; family and children's private case work agencies; social settlement work; county extension work; child welfare agencies; statistical and investigational work in private and public agencies; work in public institutions for the blind and delinquent; medical social service and psychiatric social work in hospitals and clinics; executive positions in social work; and all work in numerous other organizations.

The lower division requirements of the Liberal Arts curricula include the general requirements of recognized professional schools of social work and should therefore ordinarily be met in full. However, a student who has definitely decided not to become a candidate for a degree in San Diego State College may substitute the lower division requirements of the institution to which he expects to transfer wherever the requirements are met.

A student who pursues a four-year curriculum in San Diego State College should major in Economics and closely related fields and minor in Psychology in a second field of his own choice.

The following subjects should be completed in high school: elementary algebra, 1 (year) unit; plane geometry, 1 unit; algebraic theory $\frac{1}{2}$ unit; trigonometry, $\frac{1}{2}$ unit; foreign language, 3 units in one language or 2 units in each of two languages.

Following is a recommended arrangement of courses:

FRESHMAN YEAR	UNITS	SOPHOMORE YEAR	UNITS
Physical Education-----	$\frac{1}{2}$ $\frac{1}{2}$	Physical Education-----	$\frac{1}{2}$
Health Education 1 or 2--	2 --	Anthropology 54-----	
Biological Science 10A-10B	3 3	Economics 1A-1B-----	3
Political Science 1A-1B---	3 3	Psych. 1A, 1B-----	3
*Foreign Language (if needed to complete re- quirement) -----	3-5 3-5	*Additional Year Course--	3
*Speech Arts 1A-1B or English elective-----	3 3	*Additional Natural Sci- ence (if needed to meet requirement) -----	3
Electives ¹ -----	0-2 1-3	Electives ¹ -----	3
	<hr/> 16 $\frac{1}{2}$ 15 $\frac{1}{2}$		<hr/> 15 $\frac{1}{2}$
JUNIOR YEAR	UNITS	SENIOR YEAR	UNITS
Economics 140-----	3	Economics 102-----	
Social Economics 100-----	3	Economics 122-----	3
Social Economics 101-----	3	Economics 199-----	
Social Economics E109 (Field of Social Work, Extension Division)----	2	Social Economics 103-----	3
Social Economics E110 (Social Aspects of In- dustry, Extension Divi- sion) -----	2	Social Economics E111 (Social Legislation, Ex- tension Division)-----	2
Psychology 118-----	3	Social Economics E112 (Social Case Work, Ex- tension Division)-----	
Psychology 150-----	3	Psychology 145-----	3
Zoology 114A-----	2	Political Science 152-----	
Electives ² -----	5 4	Social Economics 104-----	
	<hr/> 15 15	Electives ³ -----	4
			<hr/> 15

* See lower division requirements, page 23.

¹ Recommended electives: Economics 14A-14B, 6 units; Sociology 5 units; Psychology 4A, 2 units.

² Recommended electives: History 145A-145B, or 151A-151B, 6 units.

³ Recommended electives: Anthropology 152, 3 units; Economics 3 units or History 171A-171B or 173A-173B, 6 units. See minors requirements, page 25.

Curriculum in Industrial Physics

The following subjects should be completed in high school: elementary algebra, 1 (year) unit; plane geometry, 1 unit; algebraic theory, $\frac{1}{2}$ unit; solid geometry, $\frac{1}{2}$ unit; trigonometry, $\frac{1}{2}$ unit; chemistry, 1 unit; physics, 1 unit; mechanical drawing, 1 unit; French or German, 3 units.

FRESHMAN YEAR	UNITS		SOPHOMORE YEAR	UNITS	
Physical Education-----	$\frac{1}{2}$	$\frac{1}{2}$	Physical Education-----	$\frac{1}{2}$	$\frac{1}{2}$
Health Education 1-----	2	--	Mathematics 4A-4B-----	3	3
Mathematics 3A-3B-----	3	3	Physics 1C-1D-----	3	3
Chemistry 1A-1B-----	5	5	Any combination of: Engi-		
Physics 1A-1B-----	3	3	neering 1A, 1B, 21, 22--	3	3
English-----	3	3	Engineering 23-----	--	2
Electives-----	--	2	*Foreign Language-----	3-5	3-5
			*Social Science 1-----	3	--
	16 $\frac{1}{2}$	16 $\frac{1}{2}$	Electives-----	--	0-2
				15-17	16 $\frac{1}{2}$

JUNIOR YEAR	UNITS		SENIOR YEAR	UNITS	
Physics-----	6	6	Chemistry 110A-110B ¹ ----	3	3
Engineering 128 ¹ -----	3	--	Upper division requirements		
Engineering 129 ¹ -----	--	3	and electives for the		
Economics 1A-1B-----	3	3	major and the degree		
Psychology 2A-----	3	--	(see pages 25, 67)-----	12	12
Natural Science 101-----	2	--		15	15
Electives-----	1	3			
	15	15			

Upper division, requirements must be met in full. See page 23. Students who, during the first two years, chose the regular engineering curriculum will find that certain lower division requirements will have to be deferred until the junior year. All lower division requirements must be completed before senior standing is granted. Engineering and chemistry should be used to satisfy requirements for minors.

COURSES OF INSTRUCTION

Figures in parentheses indicate the unit value of the course.

Courses numbered from 1 to 99 are lower division (freshman or sophomore) courses; those numbered 100 and above are upper division (junior or senior) courses.

Freshmen are not admitted into upper division courses.

A sophomore may enroll in an upper division course for lower division credit provided he has earned an average grade of not less than 1.5 grade point in all college work undertaken, and provided he receives the instructor's permission to enroll in the course. A second semester sophomore may enroll in an upper division course for upper division credit without the foregoing grade limitations provided the units earned in the upper division course or courses are in excess of the sixty-four units required in the lower division.

One "unit" represents an hour recitation or lecture, together with the required preparation, or three hours laboratory work each week for a semester of 18 weeks.

The semester in which courses are offered is designated as follows: (1) Fall; (2) Spring; (3) Fall and Spring; (4) Year course, beginning in the Fall or Spring; (5) Year course. Courses designated as "Year course" begin in the Fall, but those given in the list below may be taken in reverse order (i.e., the second semester of the course may be taken before the first semester) or the second semester may be taken alone. In the case of other year courses, students who have completed the equivalent of the first semester's work may seek permission from the instructor to take the second half of the course. Single semester courses having a letter B as a part of the number (as for example, Art 61B) are supposed to follow another course of the same number unless so indicated in the prerequisites to the course.

Year Courses Open to Registration in the Middle of the Year

Aesthetics 1A-1B
Aesthetics 102A-102B
Anthropology 50A-50B
Anthropology 151A-151B
Economics 160A-160B
English 4A-4B
English 52A-52B
English 56A-56B
English 106A-106B
English 107A-107B
French 101A-101B
French 105A-105B
French 107A-107B

French 110A-110B
French 111A-111B
History 4A-4B
History 8A-8B
History 111A-111B
History 121A-121B
History 145A-145B
History 146A-146B
History 151A-151B
History 156A-156B
History 171A-171B
History 173A-173B
Merchandising 24A, 24B

Political Science 1A-1B
 Political Science 175A-175B
 Spanish 101A-101B
 Spanish 102A-102B
 Spanish 104A-104B
 Spanish 105A-105B

Spanish 110A-110B
 Speech Arts 55A-55B
 Speech Arts 55C-55D
 Speech Arts 155A-155B
 Speech Arts 156A-156B

Though the College fully expects to carry out the arrangements listed in the list of courses, it reserves the right to make changes. Courses in which the enrollment does not come up to the minimum number set by the State Department of Education may not be offered or may be postponed.

AESTHETICS

LOWER DIVISION COURSES

1B Survey of Music

Springston

relation of music and other arts. Designed to stimulate enjoyment of music by developing intelligent listening. The elements of music, its structure, folk music of all countries, musical instruments, and the contributions of the best known composers, with some biographical study of these men. Compositions are presented by orthophonic recording and by live members. Attendance at a number of local concerts is required. Previous musical training or background is necessary. Music majors are required to complete additional assignments for full credit.

1 course (2-2)

Fundamentals of Art

Jackson

illustrated lecture course involving a study of aesthetic meaning and relation to the structure of art products. Designed to increase both understanding and appreciation of the visual world in general and of the arts in particular.

1 and Spring (2)

Appreciation and History of Art

Jackson

survey of aesthetic development as revealed in the painting, sculpture, architecture, and handicrafts from dawn of art to the Renaissance. Illustrated.

1 (3)

UPPER DIVISION COURSES

1A-102B History of Music

Springston

various movements in the development of music as related to other arts. The chronological development of the art of music, with particular emphasis on the larger works. Considerable attention is given to the work of modern composers. Many symphonic works are studied from the orchestral scores. Music majors are required to complete additional assignments for full credit. Prerequisite: Aesthetics 1A-1B. Previous study of harmony and instrumentation is desirable.

1 course (1-1)

Appreciation and History of Art

Jackson

period from the Renaissance through the modern school, treated in the same manner as in Aesthetics 50.

1 course (2)

ANTHROPOLOGY

LOWER DIVISION COURSES

50A-50B Man's Evolutionary History

Roger

Origin and antiquity of man. Theories of human descent. Classification of races. Origin and early development of civilization.

Year course (3-3)

54 Social Anthropology

Roger

An anthropological study of social institutions in primitive and civilized societies. The evolution of family organization, religion, property rights and government traced in elementary and advanced civilization. Ritualism and education considered as processes of culture conservation and social control.

Fall and Spring (3)

55 Culture History

Roger

The prehistoric and historic development of culture types contributing to Western European and American civilization of today. Egyptian, Semitic, Indo-European, and Oriental cultures examined in light of the bearing on contemporary civilization. Methods of culture spread examined and applied to specific traits. Spengler's theory of history and similar doctrines reviewed.

Spring (3)

UPPER DIVISION COURSES

151A The American Indian: North America

Roger

Pre-Columbian cultures of the North American Indian. The origin and migration of New World peoples. Industries, arts, crafts, social organization, religion and other phases of American Indian civilization.

Fall (3) (Offered in 1938-39 and alternate years)

151B The American Indian: Middle America

Roger

The development of civilization in Pre-Columbian Mexico and Central America: Aztec, Mayan, and related cultures.

Spring (3) (Offered in 1938-39 and alternate years)

152 Primitive Cultures (Ethnology)

Roger

History and cultural development of primitive races of mankind. Consideration given to industries, arts, social organization, and religion of living primitive peoples.

Fall (3) (Offered in 1939-40 and alternate years)

153 Primitive Religion

Roger

Beliefs and ritual of primitive man. Magic and religion. Forms of animism and polytheism. Primitive mentality and the supernatural.

Spring (3) (Offered in 1939-40 and alternate years)

ART

didates for a teaching credential in art should refer to the statement "Mission to Teacher Training" on page 26.

er division preparation for the liberal arts major in art and for the or certificate: Aesthetics 5, 50; fourteen units carefully chosen from er division art courses to meet the stated prerequisites for upper sion work. These shall include Art A-B, 6A-6B, or the accepted valents, and six elective units in art.

eral arts major (upper division): Twenty-four upper division units. se shall include Art 112A, 115A-115B, 152A, 195, and twelve upper sion elective units in art, and Aesthetics 150.

s recommended that the students in meeting degree requirements and choosing free electives, select from the following courses: Anthropology 4A-4B; English 4A-4B, 106A-106B, 107A-107B, 117; French A-B; ory 4A-4B, 111A-111B.

courses in Appreciation and History of Art and Fundamentals of see Aesthetics, page 57.

LOWER DIVISION COURSES

Art Appreciation

Appreciation of Costume and Home Furnishing **Borsum**
ures, discussions, and demonstrations on the underlying principles of s and home furnishing. (a) A study of the design, color, texture, e, and fashion in modern dress with emphasis on suitability to the e, the personality and the occasion. (b) Line form, color, texture, e, and lighting in relation to the home; the selection and arrange- of furniture, rugs, fabrics, pictures, etc., for all rooms of the home.
(2)

Design

Structure **Borsum**
fundamentals of design and composition and theory of color. Basic se used as a prerequisite for all advanced art work.
and Spring (2)

Structure (continued) **Borsum**
inal work in creative design with special stress on modern tendencies. equisite: Art 6A.
and Spring (2)

Line, Color and Display **Patterson**
principles of line, color and arrangement applied to store and ow display. Study and observation of windows, color and materials in display. Building models and practical problems in arranging s, textures and forms in windows, to fit different kinds of handise.
and Spring (3)

Industrial Design **Hamann**
nal design in its relationship to various fields—ceramics, furniture.

textiles, jewelry, and books. A survey and study of materials and processes in machine and hand production. Prerequisite: Art 6A-6B.

Fall (2)

11B Advanced Industrial Design

Hama

Advanced problems with emphasis upon the related factors of materials and production. Application of problems designed. Prerequisites: Art 6A-6B, 11A.

Spring (2)

14A Lettering

Bors

Fundamental art principles applied to lettering. Practice for quick, accurate lettering; original problems using letters as design. Prerequisite: Art 6A.

Fall (2)

14B Posters and Commercial Art

Bors

The application of lettering to posters, newspaper and magazine advertising, and other forms of commercial art. The study of composition combined with lettering and special study of modern tendencies in public art. Prerequisites: Art 6A, 14A.

Spring (2)

52A Stage Design

Patter

Theory of line, color, and lighting in relation to the stage. Original designs and costumes developed on a miniature stage. Study of the development of the modern art of the theater. Upper division credit will be given for this course to students of junior standing upon the completion of a theme work and additional original problems. Prerequisite: Art 6A.

Fall (2)

94 Costume Design

Patter

Original designs of modern costumes suitable to the individual or to distinct types; the drawing of fashion figures; the rendering of fabrics and textures. Prerequisites: Art 6A.

Spring (2)

Drawing, Painting, and Sculpture

A-B Freehand Drawing

Bors

Semester I: Problems involving perspective to develop ability to draw still life, furniture, exteriors, interiors, and the like.

Semester II: Outdoor sketching of landscape and figure, and studio work from still life and costume pose. Emphasis on composition and technique in the handling of various mediums, pencil, pen and ink, charcoal, pastel, and water color.

Year course (2-2)

15A-15B Life Drawing

Jack

Drawing from the nude model. Does not duplicate the former course in painting, numbered Art 15A-15B.

Year course, beginning either Fall or Spring (2-2)

A-16B Painting **Jackson**
 Semester I: Composition of still life and flower forms in water color.
 Semester II: Landscape and more advanced composition in water color.
 Prerequisite: Art A-B. No credit for students having completed Art
 A-15B, Painting.
For course, beginning either Fall or Spring (2-2)

Crafts

A Elementary Crafts **Hamann**
 Problems in elementary craft work, bookbinding, pottery, weaving, and
 puppetry (including the dramatization and production of a puppet play)
 Prerequisite: Art 6A, when possible.
For course, beginning either Fall or Spring (2)

B3 Elementary Crafts **Hamann**
 Problems involving the application of design principles to various fields—
 pottery, textiles, weaving, metal work, wood-carving, and book-binding.
 Prerequisite: Art 6A.
For course, beginning either Fall or Spring (2)

UPPER DIVISION COURSES

Design

A-106B Advanced Design **Borsum**
 Advanced problems in design, color and technique. Planned for students
 interested in commercial design, illustration and industrial design. Pre-
 requisites: Art A, 6A-6B; Aesthetics 5.
For course (2-2)

A-112B Organization **Jackson**
 Imaginative organization of space by means of color, dark and light,
 perspective, and textures of various materials. Prerequisites: Art A-B,
 6B, and if possible 15A-15B or 106A.
For course (2-2)

C Illustration **Jackson**
 Composition fulfilling the requirements of book illustration from poetry,
 imaginative tales, and legends, in black and white and color. Prerequi-
 site: Art 112A.
For course (2) (Offered in 1938-39 and alternate years)

A Stage Design **Patterson**
 (Art 52A)

B3 Stage Costume **Patterson**
 Costume studied in relation to drama, opera and dance. Original designs
 of mood and character. Practical problems in designing costumes and
 accessories for college productions. A brief history of costume from the
 Egyptian to the modern time. Prerequisites: Art 6A, 52A or 152A.
For course (2)

D Home Decoration **Patterson**
 Figures and designing in class, trips to art galleries, stores, factories and
 homes, studying how to recognize and choose the best in furniture, rugs,

wall coverings, textiles and pottery as to design, color and material. Actual experience in designing and arranging furnishings in homes and offices. Working with local stores and architects. Arrangement of floor and objects for different types of rooms and occasions. Prerequisite: Art A, 6A.

Spring (2)

Drawing, Painting, and Sculpture

115A-115B Life Drawing and Painting

Jack

Drawing and painting from nude and costume models.

Year course, beginning either Fall or Spring (2-2)

115C-115D Advanced Life

Jack

Painting from nude and costume models and advanced composition in portraiture. Prerequisite: Art 115A-115B.

Year course, beginning either Fall or Spring (2-2)

116A-116B Advanced Painting

Jack

Painting in water color and oils from still life and landscape, stressing composition and technique. Prerequisite: Art 16A-16B.

Year course, beginning either Fall or Spring (2-2)

ASTRONOMY

Lower division preparation in astronomy desirable for advanced work. Astronomy 1, 3, 9, and 11; Mathematics 3A-3B, 4A-4B; Physics 1A and 1C-1D; a reading knowledge of German (French also desirable).

LOWER DIVISION COURSES

1 Descriptive Astronomy

C. E. S.

A cultural course planned to develop an appreciation of astronomy with special emphasis on the solar system. Only calculations of an elementary nature are used. Especial attention given to the methods and instruments by means of which astronomical knowledge has been gained. A six-inch Alvin Clarke telescope is available for observation. Prerequisites: Elementary algebra and plane geometry.

Fall and Spring (3)

3 Surveyor's Course in Practical Astronomy

C. E. S.

The principles of spherical astronomy adapted to the needs of engineering students. Computation and observation. Prerequisites: Surveying or permission of instructor. Astronomy 1 and Astronomy 9 desirable.

Spring (2)

5 Historic Development of Astronomy

C. E. S.

The leading facts now known in astronomy in the light of circumstances attending their discovery. Prerequisite: Astronomy 1, or permission of instructor.

Spring (3)

9 Practice in Observing

C. E. S.

A laboratory course designed particularly to go along with and to supplement Astronomy 1. The course will include constellation study, use

ronomical coordinates, elementary methods of determining time and
itude, and descriptive observations of celestial objects with the six-
h telescope. Prerequisite: Astronomy 1 or registration in Astron-
y 1 or permission of instructor.

fall and Spring (1)

Modern Astronomy

C. E. Smith

study of sidereal astronomy and astrophysics in the light of modern
earch, especially photographic and spectographic. Prerequisite:
ronomy 1 and a knowledge of physics or permission of instructor.

fall (3)

UPPER DIVISION COURSE

Special Problems

C. E. Smith

mission by consent of instructor. Credit and hours to be arranged in
h case. Open to students who have completed three units in astronomy.

fall and Spring (1 or 2)

BIOLOGICAL SCIENCES

(General Biological Science, Botany, Zoology)

er division preparation in botany for advanced work and for the
ior certificate: Botany 2A, 2B, 4, 7, and Chemistry 1A.

er division preparation for the liberal arts major in zoology and
the junior certificate: Zoology 1A, 1B, and high school chemistry or
mistry 1A-1B. Recommended: German, French, Botany 2A, 2B, 4, 7.

eral arts major in zoology: (1) At least a C average in upper division
or courses. (2) Twenty-four units of upper division courses in
ogy or eighteen in the major subject and six in related courses in
ny, organic chemistry, physics, physiology, and bacteriology.

ents preparing to teach science in the junior high school should try
clude courses in zoology, botany, bacteriology, physics, chemistry (at
high school chemistry), and Education 120. The following are also
able: geography, geology, anthropology, astronomy, and upper
ion biological sciences.

: A fee is required in all laboratory courses in this department.
fee covers the cost of materials used. For breakage and extra mate-
in addition to the estimated need an extra charge must be made.

LOWER DIVISION COURSES

Man and His Biological World

Johnson

eneral biology course with lectures, discussion, and demonstrations
e hours a week. For students who are not required to take Biological
ice 10A-10B and who prefer a shorter course with no required labora-
work. A demonstration laboratory is usually offered one day a week
those who care to attend; attendance at laboratory is optional.
open to students who have taken 10A-10B or any combination of
ogy 1A-1B or high school zoology with Botany 2A-2B or high school
y. Students who have credit for this course and later elect
10B receive 4 units of credit for 10A-10B instead of 6.

fall (3)

The fundamentals of plant and animal biology, with elementary work in human physiology and heredity. Laboratory work supplements lectures and includes a study of living and preserved material. Aims in the course to acquaint the student with the basic facts of biology. Designed not only to give the general student an acquaintance with living things and their relationships, but also to furnish the prospective teacher with an adequate background for nature study teaching. Includes lectures and one three-hour laboratory period per week. Designed for those who do not expect to specialize in zoology or botany; not open for credit to students who have taken Zoology 1A, or Botany 2A. Students who have taken 10A-10B may elect Zoology 1B or Botany 2A, open for credit.

Year Course (3-3)

BACTERIOLOGY

199 Special Study

Reading or work other than is outlined in the regular courses. (Includes Bacteriology 1, General, and 102, Advanced Bacteriology, or 103, Current Problems in Hygiene and Bacteriology, are usually offered in the summer session). Admission only by consent of the instructor with whom the work is to be done and the chairman of the Biological Science department. Credit and hours to be arranged in each case. Open to students who have completed at least 6 units of bacteriology with grades of A or B.

BOTANY

LOWER DIVISION COURSES

2A General

Fundamentals of structure and general behavior of seed plants. Includes lectures or recitations and two three-hour laboratory periods per week. *Fall (4)*

2B General

A continuation of 2A treating morphology and relationship of the seed plants and including an introduction to classification of seed plants. Includes lectures and laboratory as in 2A.

Spring (4)

4 California Plants

Classification and ecology of representative orders of wild flowers, trees and chaparral of the San Diego region, including practice in the use of keys. One lecture and three hours laboratory per week. Occasional Saturday field trips.

Spring (2)

7 Plant Physiology

The activities of plants, including food manufacture, absorption, transduction, transpiration, respiration, growth, and movement. Two lectures and six hours of laboratory per week. Prerequisite: Biol. Science 10B or Botany 2A.

Fall (4) (Offered in 1938-39 and alternate years.)

UPPER DIVISION COURSES

Plant Geography

Harvey

lectures and field work on the principles of geographical distribution of plants. Prerequisite: Botany 2A-2B, or 4, or equivalent.

II (2) (Offered in 1939-40 and alternate years.)

Taxonomy

Harvey

identification, classification and distribution of representative orders of flowering plants. Six hours per week of lectures, laboratory, and field work. Prerequisites: Botany 2A-2B, 4.

III (3) (Offered in 1938-39 and alternate years.)

Special Study

**Instructors of the Department
(Johnson in charge)**

including or work other than is outlined in the above courses. Admission by consent of the instructor with whom the work is to be done and approval of the head of the department. Credit and hours to be arranged in each case. Open to students who have completed at least ten units of lower division work in the department with a grade of A or B.

I and Spring (1 or 2)

ZOOLOGY

LOWER DIVISION COURSES

General

Harwood and Hoard

introduction to animal biology dealing with structure, functions, and evolution of animal life. Laboratory work supplementing the lectures (based on the study and observation of living and preserved material—plants and invertebrates). Valuable to the general student as well as to the biology specialist, acquainting one with the fundamental facts and theories of biology as they pertain to animal life. Two lectures or recitations and two three-hour laboratory periods per week.

(4)

General

Harwood and Hoard

continuation of 1A. The structure, relationships, and classification of the chordates. Two lectures and two three-hour laboratory periods per week. Prerequisite: Zoology 1A or Biological Science 10B.

III (4)

Anatomy and Physiology

Crouch

elementary course in human anatomy and physiology. Prerequisite: high school biology, or Biol. Science 10A-10B or Zoology 1A-1B. Lectures 2 hours per week.

I or Spring (3)

UPPER DIVISION COURSES

Embryology

Johnson

development of vertebrates as illustrated by the frog, chick, and mammal. Six hours of laboratory and two hours of lecture per week. Prerequisite: Zoology 1B or Biol. Science 10B.

II or Fall (3)

Comparative Anatomy of the Vertebrates

Crouch

description, study and comparison of organ systems of typical vertebrates.

brates. Two hours per week of lecture and six hours of laboratory. Prerequisite: Zoology 1B or Biol. Science 10B.

Fall (4)

112 Marine Zoology

Johns

Designed to acquaint the student with the many interesting animals found along the beaches in the San Diego region. Identification, distribution, associations, structure, and to some extent, behavior and life histories of the organisms. Frequent collecting trips to the beach and study of living animals in the laboratory. Prerequisite: A laboratory course in elementary biology or zoology.

Fall (3) (Offered in 1939-40 and alternate years)

113A Taxonomy and Natural History of the Mammals

Crou

Frequent field trips and the identification of preserved material. Three hours of laboratory per week.

Spring (1)

113B Ornithology

Crou

The study and identification of birds, especially those of the Pacific coast and the San Diego region. One hour of lecture and six hours per week of laboratory, or field excursions. Prerequisite: Zoology 1B, or Biol. Science 10B.

Spring (3) (Offered in 1938-39 and alternate years)

113C Field Study of Birds

Crou

The study and identification of the birds of the San Diego region. Three hours of laboratory or field work per week.

Spring (1) (Offered in 1939-40 and alternate years)

113D Natural History of Fishes

Lectures, laboratory, and field work to acquaint the student with the groups of fishes, their habits and economic importance.

Spring (1) (Offered in 1939-40 and alternate years)

114A Genetics

Harw

General introductory course designed to acquaint the student with the fundamental principals of heredity and variation. Special attention given to the Mendelian interpretations of the facts of inheritance. Two lectures per week.

Fall (2)

114B Evolution

John

The development of theories of evolution. Two lectures or discussions periods per week.

Spring (2) (Offered in 1938-39 and alternate years)

121 Entomology

Harw

The classification, life history, structure, and physiology of insects. Prerequisite: Zoology 1A or Biol. Science 10B. Two hours of lecture and six hours of laboratory per week.

Spring (4) (Offered in 1938-39 and alternate years)

130 Readings in Biology

Harw

Readings from a suggested bibliography with informal class discussions.

opics. Subjects discussed will include history of biology, biological principles, ecology, economic zoology, zoogeography, breeding habits, and behavior.

ing (2) (Offered in 1939-40 and alternate years)

Special Study

Instructors of the Department
(Johnson in charge)

ding or work other than is outlined in the above courses. Admission by consent of the instructor with whom the work is to be done and head of the department. Credit and hours to be arranged in each. Open to students who have completed at least ten units of work in department with a grade of A or B.

and Spring (1 or 2)

CHEMISTRY

er division preparation for the liberal arts major in chemistry and the junior certificate: Chemistry 1A-1B with an average grade of C or better, Chemistry 7-8, Physics 2A-2B and 3A-3B or their equivalent, Mathematics 3A-3B or the equivalent, and a reading knowledge of German. Students planning to do graduate work in chemistry or to transfer to another college, and there work for a degree with a major in chemistry, are advised to take Physics 1A-1B-1C-1D and Mathematics 3A-3B-4A in place of the courses listed above.

eral arts major (upper division): A minimum of twenty-four upper division units in chemistry including Chemistry 105A-105B, 110A-110B and 111A-111B. The choice of a related minor and the organization of the course of the major student must follow a definite plan approved by the department.

requirements for liberal arts major in physical science, see page 107.

LOWER DIVISION COURSES

1B General Chemistry

Messner, Robinson

general principles and laws of chemistry, and a description of the elements and their compounds. Two lectures, one quiz and two laboratory periods per week. The laboratory work in the second semester consists of work in qualitative analysis. Prerequisites: At least two years of high school mathematics. Recommended: High school chemistry and physics.

course (5-5)

Organic Chemistry

Robinson

General consideration of the carbon compounds (both aliphatic and aromatic) and their derivatives; their synthesis, constitution and properties, and the principles involved. Two lectures and one laboratory period per week first semester; one lecture and two laboratory periods per week second semester. Prerequisite: Chemistry 1A-1B.

course (3-3)

UPPER DIVISION COURSES

Quantitative Analysis

Messner

Principles of gravimetric and volumetric analysis. Discussions of the theory of quantitative analysis and practice in the standardization of

reagents and analysis of samples. One lecture and two laboratory periods per week. Prerequisite: Chemistry 1A-1B.

Fall (3)

105B Advanced Quantitative Analysis

Mess

Advanced work in the theory and practice of volumetric, gravimetric and electro-analysis. One lecture and two laboratory periods per week. Prerequisite: Chemistry 105.

Spring (3)

110A-110B Physical Chemistry

Mess

Lectures and problems on theoretical principles of chemistry. Prerequisites: Physics 1A-1B or 2A-2B and Chemistry 105 which may be taken concurrently. With the approval of the instructor, advanced courses in physics may be substituted for Chemistry 105.

Year course (3-3)

111A-111B Physical Chemistry—Laboratory

Robin

Physico-chemical problems and measurements. Two laboratory periods per week. Prerequisites: Credit or registration in Chemistry 110A-110B, Physics 1A-1B or 2A-2B, and calculus. With the consent of the instructor, advanced courses in physics may be substituted for Chemistry 105 which may be taken concurrently.

Year course (2-2)

112 Industrial Analysis

Robin

A laboratory course including the analysis of fuels, petroleum products, water, and gas. Prerequisite: Chemistry 105 which may be taken concurrently.

Spring (2) (Offered in 1939-40 and alternate years)

114 Biochemistry

Mess

An introductory lecture course covering the carbohydrates, proteins, fats and the changes which they undergo in digestion and metabolism as well as a consideration of the vitamins and other accessory food factors and their importance to the body. A brief discussion of the chemistry of plant life. Prerequisites: Credit or registration in Chemistry 110A-110B.

Fall (3) (Offered in 1938-39 and alternate years)

118 Colloid Chemistry

Mess

A lecture course covering the theoretical principles of colloid chemistry and the preparation, properties and practical applications of colloids. Prerequisite: Chemistry 110A-110B.

Fall (2) (Offered in 1939-40 and alternate years)

123-124 Organic Preparations

Robin

A laboratory course illustrating some of the more important synthetic methods of organic chemistry. Laboratory and conferences. Prerequisite: Chemistry 7-8. A reading knowledge of German recommended.

Year course, beginning either Fall or Spring (1 to 5-1 to 5)

125 History of Chemistry

Robin

Development of the science of chemistry from the time of the alchemists

Geography 141 may be used in the electives under A and B. Economics 150 (Labor Problems, Summer Session), recommended.

LOWER DIVISION COURSES

1A-1B Principles of Economics

Came

The basic principles of economics: utility, wealth, value, price; economic production, distribution, and consumption; rent, interest, wage and profit; competition, monopoly, and large scale production; proper economic waste, and luxury; money and banking, international trade, tariffs; transportation corporations, labor problems, socialism, taxes, etc. Aims of the course: (1) to provide a foundation for further intensive study of economic problems; (2) to furnish to those who expect to follow business pursuits a broad foundation in economic principles; (3) to introduce future citizens to political and economic problems of our time. Lectures, discussions, quizzes, and collateral reading. Open to entering freshmen except by special arrangement.

Year course (3-3)

2 Mathematics of Finance

Wr

Interest and annuities; amortization; sinking funds; valuation of bonds; depreciation; mathematics of building and loan associations; mathematics of life insurance. Prerequisites: Two years of algebra in high school or equivalents.

Spring (3)

14A-14B Accounting

Wr

A knowledge of bookkeeping not required and not advantageous. Balance sheet; profit and loss statement; various types of bookkeeping; original entry; the opening, conducting, and closing of books for different kinds of businesses; organizations, reorganizations, dissolutions, and consolidations, etc., keeping in view the best modern accounting practice. Five hours lecture and laboratory.

Year course (3 or 4-3 or 4)

18A-18B Commercial Law

W

The leading and fundamental principles of business law. Simple cases showing the actual application of the principles to commercial and business transactions, rather than the development of those principles. Subjects covered: contracts, sales, agency, partnerships, corporations, property, negotiable instruments, insurance, and wills, with a brief study of evidence.

Year course (3-3)

UPPER DIVISION COURSES

100 Modern Economic Thought

A. G. Peter

Classical doctrine in the light of recent economic theory. A critical analysis of contemporary economic thought. Prerequisite: Economics 1A-1B.

Spring (3) (Offered in 1938-39 and alternate years)

102 Contemporary Theories of Social Control

A. G. Peter

A study of principles, plans and movements for social and economic control including consideration of anarchism, individualism and liberalism, collectivism, socialism, communism, fascism, and the New Deal.

Spring (3) (Offered in 1939-40 and alternate years)

Economic History of the United States **Wright**
comprehensive survey of American economic development and of
tional legislation in the field of industry.
U (3)

Business Administration **A. G. Peterson**
blems of business administration as an interrelated whole and as an
ication of lines of study which may lead to the solution of those
blems. A discussion of the problems of the business administrator
h particular reference to the character of the problems involved and
the control policies and devices of the manager. Questions, problems,
case studies. Prerequisite: Economics 1A-1B.
U (3)

Public Business Administration **A. G. Peterson**
general survey of the field of public administration with particular
ention to the organization of the administrative service and the prin-
es, practice and problems of personnel and finance administration.
U (3) Offered in 1939-40 and alternate years)

Field Studies in Public Business Administration **A. G. Peterson**
en only to qualified students with the consent of the supervisor.
U (1-2) (Offered in 1939-40 and alternate years)

Marketing
distributive organization and its functions, including the marketing
oth agricultural and manufactured products. Prerequisite: Economics
1B.
ing (3) (Not offered in 1938-39)

Real Estate **Cameron**
estate in all its aspects: property rights, transfer of title, valua-
finance, selling, property management, taxation, insurance, city plan-
g, and the like, with special emphasis upon problems as they exist in
Diego.
ing (3) (Offered in 1939-40 and alternate years)

Public Finance
principles and practice of taxation, public expenditures, and financial
inistration. Prerequisite: Economics 1A-1B.
ing (3) (Not offered in 1938-39)

Corporation Finance **Cameron**
corporate form of organization, instruments of long-time finance,
hods of raising capital, efficient financial management, and the financ-
of reorganizations, and governmental control. Prerequisite: Eco-
ics 1A-1B.
(3)

Investments **Cameron**
stment principles and practices with emphasis upon problems of
small investor, such as tests of a good investment, sources of informa-
types of stocks and bonds, mechanics of purchase and sale, invest-
trusts, real estate mortgages, and the like.
ing (3)

135 Money and Banking

Came

The elements of monetary theory. History and principles of banking with special reference to the banking system of the United States. Prerequisite: Economics 1A-1B.

Fall (3)

140 Statistical Methods

Dep

The nature and uses of statistical method in the social sciences. Practice in the tabular and graphical presentation of data; in the computation of averages, ratios and coefficients, measures of dispersion, measures of relationship. Research studies are made, utilizing data obtained from typical economic and commercial situations, involving index numbers, time series, and business cycles and barometers. Opportunity to obtain practice in the use of calculating machines and aids to computation. Prerequisite: Mathematics A, D, and G or equivalents. Only two units of credit are available for this course in the case of students who previously have completed Education 140.

Spring (3)

160A-160B Advanced Accounting

Wr

An intensive study of the corporation, its accounting and financial problems; a thorough study of the balance sheet; depreciation; financial accounting, etc. Under practical accounting an endeavor is made to design, construct, and operate sets of books to meet the needs of different conditions and kinds of businesses. Six hours lecture and laboratory. Prerequisite: Economics 14A-14B.

Year course (3-3) (Offered in 1938-39 and alternate years)

161 Cost Accounting

Wr

Principles and methods of cost accounting in the mercantile establishment and in the factory. A study of bookkeeping procedure, the forms used, and their application to practical problems. Prerequisite: Economics 14A-14B.

Spring (3) (Offered in 1939-40 and alternate years)

162 Accounting Systems

Wr

The accounting systems used in various types of business and financial concerns. Some practice in devising and installing systems. Prerequisite: Economics 14A-14B.

Spring (3) (Offered in 1939-40 and alternate years)

163 Machine Accounting

Wr

The application of mechanical accounting devices to accounting conditions together with a study of efficient machine methods that conform to accounting practice and yet meet the practical accounting requirements that are found in many classes of business. In addition to a thorough study of machine installations, the course requires considerable practice in the operation of standard accounting machinery. Prerequisite: Economics 14A-14B.

Fall (3) (Not offered in 1938-39)

164 Income Tax Procedure

Wr

A consideration of the problems arising from the Federal income tax. The problems are approached from the point of view of the taxpayer.

ires to determine the exact application of the law to the interests he
resents as well as from the accounting point of view. No knowledge
accounting procedure is necessary.

4 (2) (Offered in 1939-40 and alternate years)

Auditing

Wright

e fundamental principles of accepted procedures of auditing and
ited types of accounting engagements.

ur Course (2-2) (Offered in 1938-39 and alternate years)

Transportation

Cameron

development of railway transportation; railroad financing; rates
rate making; governmental regulation; government operation of rail-
ds during the war; recent development of motor and air transporta-
t; current problems. Prerequisite: Economics 1A-1B.

ing (3) (Offered in 1938-39 and alternate years)

Special Study

The Staff

igned exclusively for seniors with a major in economics or commerce.

ing (2)

ECONOMIC GEOGRAPHY

(See Geography)

MERCHANDISING

Elements of Merchandising

Torbert

urvey of the various methods by which products reach the retailer;
ket structure, its principles and functions; types of retail insti-
ons, their origin, growth and trends.

(3)

Principles of Merchandising

Torbert

oil stores, the problems of store managers and merchandising execu-
s; location, organization, personnel, sales promotion, buying and
lling of merchandise, inventory, turnover and control methods.
nging problems in retailing, problems of profitable operation under
ent conditions.

ng (3)

Principles of Salesmanship

Torbert

retical and psychological backgrounds of salesmanship, newer con-
s of selling; the selling of ideas and services; steps in a sale;
ition, interest, desire, closing; the development of clienteles and of
will; the personal factor in salesmanship.

Applied Salesmanship

Torbert

rvised work in cooperating stores, or outside selling; relationships
een theory and practice in specific selling situations; student's
ems; commission, and other incentive methods of payment in selling;
problem of the sales manager, or store manager, in reducing selling

ig (2)

Principles of Advertising

Torbert

tions, principles, and applications; market surveys and analysis;

basic psychological appeals; budgeting of appropriations; selection of mediums; layout, art work copy; publicity and promotion stores; institutional advertising; the functions of agencies.

Spring (3)

SECRETARIAL TRAINING

A Business Mathematics

A practical course in the mathematics of business. A thorough study of interest, compound interest, discount, amortization tables, insurance rates, etc.

Fall (1) (No degree credits in Liberal Arts curricula.)

1A-1B Typewriting

A rapid development of a thorough command of a keyboard by the touch method. The acquisition of speed and the artistic arrangement of typewritten material with special reference to commercial forms, tabulations, and billing; specifications, legal forms, and preparation of manuscript transcription, mimeographing, etc. Eight hours lecture and laboratory practice.

Year course (3-3) (Only three units will be counted in satisfying A.B. degree requirements in Liberal Arts curricula.)

2A Typewriting

A short course designed for those not wishing to enter the business field but desiring a knowledge of the use of the typewriter. Five hours laboratory practice.

Spring (2)

3A Office Methods and Appliances

Practice and principles of office management, including organization, arrangement, and operation. Study and use of modern office appliances such as the multigraph, mimeograph, filing devices, calculating and adding machines. Prerequisite: Secretarial Training 1A or its equivalent.

Spring (3)

5A-5B Stenography

An intensive course designed for the practical preparation of office stenographers. A thorough study of the Gregg System. Development of ability to read and write shorthand rapidly and correctly, both literary and commercial. The shorthand speed necessary to pass a civil service examination is attained by the end of the year.

Year course (5-5)

6A-6B Advanced Stenography

Development of speed in writing and transcription. Advanced dictation on letter forms, legal forms, speeches, and literary and technical material.

Year course (3-3)

10A English in Business

Theory and practice of business correspondence. Business letter writing, applied salesmanship; problems in writing credit and collection letters, applications for employment, adjustment letters, and sales letters. Prerequisite: English 1A or equivalent, as indicated by Subject A Examination, or record from college.

Fall and Spring (3)

SOCIAL SCIENCE

LOWER DIVISION COURSES

Contemporary Political, Social and Economic Problems

A. G. Peterson

A analysis of major problems of the present day with reference to the conditions out of which they arise and with regard to their essential unity and interrelationships and an attempt to introduce the student to sound methods of approach in dealing with these problems. Prerequisite: Sophomore standing.

Autumn and Spring (3)

Backgrounds of Social Institutions

Rogers

An introductory survey of sociological viewpoints. Origin and spread of civilization. Economic backgrounds of society. Emergence and evolution of social institutions: the family, the state, the church. The growth of the idea of progress and the development of scientific thought.

Autumn (3)

SOCIOLOGY

General

Kelly

A study of the nature and organization of human group activity, including the relation of cultural heritage to public opinion and social change. Previous preparation in biology and psychology recommended.

Autumn and Spring (3)

SOCIAL PSYCHOLOGY

(See Psychology)

EDUCATION

LOWER DIVISION COURSES

Music in the Elementary School

Springston

A study of objectives of music teaching in the public elementary schools. Study of the child voice. Organization of song material by grades. Procedure in presenting rote songs, ear training, elementary notation, music reading, and part singing. Conducting. Not open to students taking the elementary credential, nor to freshmen. Prerequisite: Music 1A, or the equivalent.

Autumn and Spring (2)

Art in the Elementary School

Patterson

A discussion of the elements and principles of art and their place in the expression and appreciation of the elementary school child. Lectures illustrated with examples of children's work and opportunity given for experience with mediums used in elementary school problems. Not open to students taking the elementary credential. Prerequisite: Art 6A.

Autumn and Spring (2)

UPPER DIVISION COURSES

Philosophy of Education

Ault

A study of fundamental biological, psychological, philosophical, social principles underlying modern education, in connection with the demands of modern society in a complex social, economic, and scientific world, with a view to the formulation of a working philosophy for the educative process.

Designed as a culmination of the studies of education and its procedure.
Open only to students with senior standing.

Spring (3)

107 History of Education

A brief study of early Hebrew, Greek, Roman and early Christian education; of the changes brought about by the Renaissance; of the transition to modern secular education; brief reviews of the educational philosophies of the great reformers; a concluding study of the development of the American school system and of American ideals and practices in education. Only 2 units allowed for students having credit for Education 107, History of Education in the United States (offered in the summer session).

Fall (3)

108 Educational Measurements

A brief survey of the development of scientific measurement in the elementary school field, including an intensive study of the more reliable and valid tests of school achievement and of mental ability. Statistical training given in handling data obtained by using measurements in typical school situations, leading to a study of the uses of tests. Practice in construction of teacher-made, objective tests in the elementary school subjects.

Fall and Spring (3)

109 Educational Administration and Supervision

A survey of the systems of organization, classification, and promotion of pupils, and such problems as finance, the teaching staff, building standards, extra-curricular activities, etc. Prerequisites: Education 125, 108, or equivalents.

Summer (2)

110 Educational Organization and Supervision

Types of supervision and methods of evaluating and improving teaching. Prerequisites: Education 125, 108, or equivalents.

Summer (2)

111 English in the Junior High School

Objectives of literature and language teaching in the junior high school; criteria for selection of material; technique of classroom procedure; observation in the city schools. Prerequisite: The satisfaction of lower division requirements in English for the teaching major in English.

Spring (2)

112 Mathematics in the Junior High School

The subject matter, organization, and methods of teaching mathematics in a junior high school curriculum. Specific problems: the application of arithmetic in current social and business life, intuitive geometry, graph representation, the phase of algebra suitable to the junior high school pupil, preparation for senior high school mathematics. Prerequisite: Psychology 1A and either Mathematics 1A-1B or 3A-3B.

Fall (2)

114 Social Science in the Junior High School

The teaching of some of the elementary facts and principles of a general social science suited to the experience and development of the junior high school student.

ool pupil, through the medium of such social studies in the junior high school curriculum as history, geography, and civics. Methods of developing a genuine and continuing interest in social and civic problems through observation and reading, discussed and illustrated. Special stress on evaluating historical and geographical material for educative purposes on this level. Prerequisites: Six units of geography and six units of history.

Practice Teaching

Ault and Supervisors

Systematic observation, participation and teaching under supervision in campus training school, the Euclid affiliated city elementary school, Woodrow Wilson Junior High School, and the senior high schools of the city of San Diego and vicinity.

The general plan is for elementary school credential candidates to take, in addition to the education practicums, an afternoon of teaching daily in the campus training school or two and one-half hours daily in the Euclid school throughout one semester; junior high school and special secondary school credential candidates will be guided by their adviser relative to the distribution of their practice teaching. For those seeking a combination of credentials, the requirements for each teaching level must be satisfied. Further information regarding this requirement should be requested of the Dean of Education when the student first registers for practice teaching.

Forty clock hours of practice teaching will usually carry one unit of credit in the course, but the final amount of credit allowed will depend on the character and quality of the teaching done by the student. Practice teaching requirements may be reduced for those who furnish evidence of successful public school experience.

The maximum amount of credit allowed for this course is twelve units. Universities usually reduce the amount of practice teaching credit to four units. Students planning to transfer to such institutions should be prepared to meet this reduction with an equal number of acceptable units in other courses.

A grade below a C is acceptable for credit in this course.

Prerequisites: Completion of 75 units of college work; admission to teacher training; a C average in all college work and in the work of the preceding semester; three units of work in psychology. No credit will be given unless the student registers for this course in the office of the Dean of Education.

Art in the Junior High School

Patterson

Art problems, discussions and observations which will give an understanding of the type of work that should be taught in junior high schools.

Offered in 1938-39 and alternate years

General Science in the Junior High School

Baird, Johnson

General content, methods, field work, text books, laboratory work, equipment, reference reading for teaching general science in a junior high school. Prerequisites: Eighteen units of college science including one year-course in college biological science, Physics 2A-2B, or equivalent, and high school or college chemistry.

Offered in 1938-39 and alternate years

121 Principles of Secondary Education

Per

The principles of educational science that should underlie the organization, administration and curriculum of the secondary school. Prevailing patterns of high school education; tendencies in the direction of future development. Particular attention to the method of directing learning in the secondary schools. Prerequisite: Psychology 1A. Open only to students with senior standing.

Fall and Spring (3)

124 Romance Languages in the Junior High School

Phill

The main questions of pronunciation, grammar, composition, reading texts, etc., as applied to teaching elementary classes in French and Spanish. The different methods; their history and value. Prerequisite: Two years of college French or Spanish.

Spring (2) (Offered in 1939-40 and alternate years)

125 The Elementary School Curriculum

Depu

An analytical and constructive curricular study of the subject matter taught in the elementary school, with particular emphasis on the upper elementary grades; together with an intensive study of teaching technique in the elementary school, including observation of typical teaching procedures. The course embraces individual and group research work in curricular materials, visual aids, type lessons, and experimental studies of teaching methods.

Required of candidates for junior high and special credentials in art and physical education. Candidates for a combination of the elementary and junior high school credentials must register for the education practice instead of this course.

Fall (3)

127 Music in the Secondary School

L. D. Sm

Main objectives of music teaching in the public secondary school. Organization of the chorus and glee clubs, voice testing, seating, a supply of song materials available. Organization of courses in applied music, harmony, history and appreciation.

Fall (2) (Offered in 1939-40 and alternate years)

130 Educational Psychology

Depu

Man's equipment for learning and the learning process. Consideration given to human behavior which is fundamental to learning. The study of learning includes such topics as laws of learning, improvements in learning, remembering and forgetting, fatigue in learning, and the transfer of training. Prerequisite: Psychology 1A.

Spring (3)

137 Comparative Education

A

School systems of England, France, Germany, and Denmark; traits of peoples; origin and development of school systems; literacy of population; traditional influences; characteristic types of schools and educational procedures; governmental and private support; training of teachers. Knowledge of History of Education desirable but not required.

Fall (3)

Elementary Educational Statistics

Deputy

introductory study of measures of central tendency, of variability, and relationship which are commonly used in connection with educational work. Laboratory training in statistical method and opportunity to in practice in the use of calculating machines and other aids to computation. Data for statistical research taken from typical school situations. Only 2 units allowed students who have taken Economics 140.

(3)

Educational Sociology

Hepner

consideration of school practices in light of social needs; interrelationships of schools and other social agencies; and trends in cooperative activities among community organizations. Selected individual study projects to make personal contacts with various types of public and private social institutions and with some current social movements. Prerequisite: Upper division standing.

ing (3)

Organization and Administration of Music Education

L. D. Smith

theory of the general principles of music administration; correlation of music with the various subjects in the public schools; music tests; creative work.

(2)

Education Practicum—Lower Levels

Labour, Hammack, Nordahl, Patterson, Schwob, Springston, Stone
education practicum are intended to integrate content material, educational principles and theory with practice as found in the modern progressive elementary school. Conferences are held daily by each of the training school supervisors who is responsible for a small group of 5 students. All the students enrolled in each practicum meet as a group with the principal of the training school or one of the special subject supervisors of art, music and physical education three times per week. Lectures, discussions and reports of observation and reading assignments occupy the time of these meetings. In order to see the relationship of the theory under discussion and actual school practices, each student is required to spend two hours per week in observation under the direction of the supervisor and five hours per week in participating in the activities of the pupil-group under the direction of the principal. This participation takes the form of induction into teaching, currently with the mastery of fundamental processes and techniques. A considerable amount of the credit in the practicum is not for content material ordinarily found in education courses but is included under this because of its very close relationship in use. For evaluating credits the content of each practicum is distributed as follows: educational methods, 5 units; educational principles and psychology of learning, 3 units; mental hygiene, 1 unit; health and physical education, 2 units; science teaching, 2 units.

A group of courses taken at this or another college will not be recognized as substitute for the practicum. Credit for such courses may be submitted to the Dean of Education to ascertain if it will reduce in any way the total requirements.

Each student should register for his first practicum course at the beginning of the junior year or as soon thereafter as he can qualify. Assignments to

supervisor-groups and to participation will be made by the principal at the training school at the time of registration. Not more than 30 time participants in the lower level nor more than 45 full-time participants in the upper level may be registered in any one semester.

Fall (12) and Spring (13)

148 Education Practicum—Upper Levels (See description above
Bacon, Barbour, Corbett, Patterson, Post, Schwob, Springs
Stone.

Prerequisite: Education 147.

Fall and Spring (12 to 14)

160 Commercial Education

Wr

Aims, objectives and procedures in commercial education. A study of curricula, together with a consideration of the content of commercial subjects; tests applicable to commercial teaching.

Fall (2)

161 Junior Business Training

Wr

The methods and content of the course in the elements of business training as offered in the junior high school. Not open for credit for those who have taken Secretarial Training 3A.

Spring (2)

163 Stenography

Am

Methods and content of courses in stenography. Prerequisites: Secretarial Training 5A-5B, 6A.

Fall (2)

164 Bookkeeping

Wr

Various types of bookkeeping method, with considerable study of commercial bookkeeping.

Fall (2)

165 Typewriting

Am

Methods in typewriting and office procedure. Prerequisite: Secretarial Training 1A.

Spring (2)

170 Administration of a Visual Instruction Program

Ev

The service program of a visual instruction center is studied as a collection, selecting, organizing and distributing center for classroom illustrative materials; a teacher training and advisory bureau in the technical and correct use of visual aids; a photographic production laboratory for making current and local illustrative materials for the curriculum; a testing division for evaluating visual equipment, standardization and upkeep of same; a center for correlating and integrating the school program with opportunities offered by other community educational institutions and organizations; an advisory department for supervising school film productions and for instructing teachers and students in the art of photography and appreciation of photoplays.

This course is given at the visual education center of the San Diego schools and the enrollment is limited to students who have made previous arrangements with the head of the Education Department and with the instructor.

Fall and Spring (2)

Speech Arts in the Secondary School

Jones

Organization and conduct of junior high and high school speech activities.
1 (2)

Educational Problems

Education Staff

(Dean of Education in charge)

Course for senior students in teacher training who have shown ability to work independently on educational problems. The problem can be chosen only after consultation with a staff member. Admission by consent of the staff. Credit and hours to be arranged.

1 and Spring (1-3)

ENGINEERING

LOWER DIVISION

1B Plane Surveying

Gleason

Use and adjustment of surveying instruments, computations and mapping, together with a study of land, topographic, city, and mine surveying. Two instruction periods and one three-hour period for field work in mapping each week. Prerequisites: Trigonometry and Engineering or equivalent, and sophomore standing.

1 course (3-3)

Summer Class in Surveying

Practical field problems in reconnaissance, triangulation, location and topographic surveys. Observations for meridian, time and latitude. Preparation of work in linear and angular measurements. Development of self-reliance, accuracy, and professional skill on the part of the student. Four-day course held in the mountains near San Diego. For details regarding location of camp, date of registration, date of opening, and other arrangements, a special announcement of the surveying camp may be obtained at the Registrar's Office. Offered if demand is sufficient. Prerequisite: Surveying 1A-1B.

1 semester (3)

Descriptive Geometry

Walling

Elemental principles of descriptive geometry and their application to problems of engineering. Lectures and drafting. Prerequisites: One semester of mechanical drawing, and sophomore standing.

1 (3)

Machine Drawing

Walling

Use and drawing of simple machine parts with emphasis upon the production of standard drawings. Lectures and drafting. Prerequisite: Surveying 21.

1 (3)

Materials of Construction

Walling

Natural properties and adaptability of materials used in engineering. Lectures. Prerequisite: Sophomore standing.

1 (2)

25 Elements of Electrical Engineering

Wal

Mathematical and descriptive consideration of electrical circuits machinery together with a general survey of the electrical industry. tures. Prerequisites: Mathematics 4A, Physics 1C.

Spring (3)

28 Elements of Heat Power Engineering

Wal

Fundamental consideration of fuels, combustion, steam, boilers, furn chimneys, steam engines, steam turbines and auxiliaries, internal bustion engines. Lectures. Prerequisites: Mathematics 3B, Physics Primarily for engineering students other than mechanical or elect

Fall (3)

UPPER DIVISION

125 Elements of Electrical Engineering

Wal

Essentially the same as Engineering 25 with addition of special pro work for advanced students. Prerequisites: Mathematics 4A, Physics Primarily for students enrolled in the Engineering Physics curricu

Spring (3)

128 Elements of Heat Power Engineering

Wal

Essentially the same as Engineering 28 with addition of special pro work for advanced students. Prerequisites: Mathematics 3B, Physics Primarily for students enrolled in the Engineering Physics curricu

Fall (3)

ENGLISH

Lower division preparation for the liberal arts major in English for the junior certificate: English 1B-2 or 3 and six units from 52B, 56A, 56B.

Liberal arts major (upper division): 24 units in upper division En to be selected and arranged under supervision of the department. more than four units may be in composition. A reading knowledge German or French.

LOWER DIVISION COURSES

1A Freshman English

The elements of composition, including drill in grammar and u exercises in vocabulary building and careful reading, and an introdu to the principles of effective writing.

Fall and Spring (1)

1B Freshman English

Adams, Cook, Dickhaut, Ke
Kennedy, F. D. W

Composition stressing exposition. Reading from essays of England America since 1850. Prerequisite: English 1A or equivalent (as cated by Subject A test or record from another college).

Fall and Spring (3)

2 Sophomore English

Kennedy, F. D. W

Composition stressing personal narrative and informal essay. Re from field of biography and memoirs. Prerequisite: English 1B.

Fall and Spring (3)

Sophomore English

Adams, Dickhaut

Composition stressing article writing of varied types. Reading from recent periodical literature. Prerequisite: English 1B.

Fall and Spring (3)

4B Great Books

Outcalt

Survey of books and bodies of literature that are significant sources or expressions of European and American culture. These include the Hebrew Bible, Greek epic and tragedy, Norse eddas, and other literature of religious and communal character; and highly significant masterpieces of poetry and prose by great authors down to the nineteenth century.

Two course (3-3)

Recreational Reading

Dickhaut

Development of personal tastes for leisure-time reading through lectures and oral or written reports. May be taken a second time with new material.

Fall and Spring (1)

52B Types of Literature

Outcalt

Semester I: Introduction to the study of lyrical and narrative poetry; elements and elements of poetry; typical poems. Semester II: Introduction to the study of dramatic poetry and prose, the essay, novel and short story; elements, principles and characteristics; examples.

Two course (3-3)

55B Dramatic Production

Jones

Speech Arts, page 113.

56B Survey of English Literature

Keeney

Most important masterpieces of English literature from the Anglo-Norman period through the Victorian age.

Two course (3-3)

UPPER DIVISION COURSES

Modern Prose Fiction

Dickhaut

Recent and contemporary fiction in novel and short story, including English, American, and a brief selection from the Continental.

Spring (3)

106B Advanced Composition

Dickhaut

Laboratory course in modern prose writing. Semester I: Artistic composition, with description. The short story. Semester II: The essay, magazine article, criticism. Outside readings. Prerequisite: One semester of college composition. Either semester may be taken first.

Spring (2-2) (Offered in 1939-40 and alternate years)

107B Advanced Composition

Adams

These courses are designed for students who wish to do independent work in composition. The discussions will consider the problems of effective

tive expression as exhibited in the work of the members of the class.
Prerequisite: Same as for 106A, 106B. Either semester may be taken first.

Fall, Spring (2-2) (Offered in 1938-39 and alternate years)

110 Recreational Reading

Dickha

An advanced course in the group reading of modern drama, poetry and fiction.

Fall and Spring (1)

116A The Age of Elizabeth

Adan

Poetry and Prose, exclusive of the drama.

Fall (3) (Offered in 1938-39 and alternate years)

116B The Elizabethan Drama

Adan

Emphasis is given to the forerunners and early contemporaries of Shakespeare.

Spring (3) (Offered in 1938-39 and alternate years)

117 Shakespeare

Outca

Extensive reading of Shakespeare's plays, with special attention to select group of the comedies and another of the tragedies. Lectures and special reports.

Spring (3)

118A Swift and His Contemporaries

Keen

A study of the literature of the first half of the eighteenth century, with special emphasis on social satire of Swift, Pope, Addison, Steele, Gay and Prior.

Spring (3) (Offered in 1939-40 and alternate years)

118B Age of Johnson

Keen

A study of Johnson and his circle as representatives of their age, together with a study of Burns, Blake, and others as forerunners of the age of Romanticism.

Spring (3) (Offered in 1938-39 and alternate years)

119 The Romantic Poets

Adan

A study of early nineteenth century poetry; the work of Wordsworth, Coleridge, Byron, Shelley, and Keats, in relation to the thought of the revolutionary period.

Spring (3) (Offered in 1939-40 and alternate years)

121 Poetry of the Victorian Period

F. D. Walk

A study of Tennyson and Browning and their contemporaries and successors, relating English poetry to nineteenth century life and thought.

Fall (3) (Offered in 1939-40 and alternate years)

126 Nineteenth Century British Prose

Dickha

Readings and discussions of Victorian prose masters, emphasizing Lytton, Carlyle, Macaulay, Mill, Thackeray, Newman, Ruskin, Arnold, Hardy, and Pater.

Fall (3) (Offered in 1938-39 and alternate years)

7 Modern British Prose

Dickhaut

continuation of Nineteenth Century British Prose, including the prefaces of Shaw and the essays of Beerbohm, Belloc, Chesterton, Gosse, Wells, Inge, Stevenson, Tomlinson, Wells, and others.

1 (3) (Offered in 1939-40 and alternate years)

9A American Literature

Outcalt

survey of American literature with its backgrounds from the beginning of the 19th century to about 1890. Cooper, Melville, Hawthorne, Poe, Emerson, Thoreau, Whitman, Mark Twain and others are considered in relation to national development. Lectures, discussions and reports.

1 (3)

9B American Literature

F. D. Walker

survey of American literature with its backgrounds, covering the period from about 1890 to the present time. Extensive reading in recent contemporary poetry, fiction, etc. Lectures, discussions and reports.

1 (3)

The Development of the English Novel

F. D. Walker

history of the English novel from the beginnings to Hardy. Extensive reading of novels with reports. Lectures and discussion.

1 (3) (Offered in 1938-39 and alternate years)

Medieval Literature

Keeney

literature of the fourteenth century, especially the verse romances and the poetry of Chaucer.

1 (3)

A-156B Advanced Drama

Jones

Speech Arts, page 113.

Seventeenth Century Literature

Adams

emphasis is put upon the work of Milton.

1 (3) (Offered in 1939-40 and alternate years)

Rhythm, Pantomime and Choric Verse

Jones

Speech Arts, page 113.

JOURNALISM

(See pages 94-95)

SPEECH ARTS

(See pages 113-114)

FOREIGN LANGUAGES

As a background for advanced work in Romance languages, students advised to include in their electives as many as possible of the following courses: Geography 118, History 121A, 121B, 145A, 145B, Aesthetics or 150; English 4A, 4B, 52A, 52B, 101, 116, 117, 118, 119, 121, 126, 160.

FRENCH

LOWER DIVISION COURSES

Lower division preparation for the liberal arts major in French: French A-B-C-D; either German A-B or Spanish A-B; History 4A-4B.

Liberal arts major in French: Twenty-four units of upper division work of which at least eighteen must be in French, and of which a minimum of six may be in related subjects, arranged in consultation with chairman of the department. At least a C average in upper division major courses.

A-B Elementary

Baker, E. M. Brown, Phillips

Intensive study of French grammar and syntax; daily written work discussed in class; class drill in conversational idiom and pronunciation; reading with oral discussion and résumés; dictation; introduction to temporary prose writers. Credit not given for French A unless followed by French B. Students who have had one year of French in high school should register for French A, but will receive only two units of credit. Those who have had two years of French in high school should register for French B, in which case they will receive four units of credit.

Year course (5-5)

C-D Intermediate

E. M. Brown, L. P. Brown, Phillips

Reading and composition; study of standard prose as a basis for work, collateral reading with résumés and written reports in French; dictation. Individual conferences. Prerequisite: French B or three years of high school French, or its equivalent. Students with credit for two years of high school French, or its equivalent, should enter French C.

Year course (3-3)

SC Scientific

L. P. Brown

Reading taken from the fields of chemistry, physics, medicine, zoology, biology, etc. Outside readings of books and periodicals. Oral and written reports. Prerequisite: French B or equivalent.

Spring (2) (Offered in 1939-40 if registration warrants)

UPPER DIVISION COURSES

101A-101B Conversation and Composition

E. M. Brown

Prerequisite: French D, or its equivalent, with grade of C.

Year course (3-3)

105A-105B Modern French Drama

E. M. Brown

Plays of Musset, Scribe, Augier, Dumas fils, Pailleron, Brieux, Ibsen, Maeterlinck, Rostand, and others read and discussed as to subject matter and technique. Outside reading and reports. Prerequisite: French D, or its equivalent, with grade of C.

Year course (3-3) (Offered in 1941-42)

A-107B Eighteenth Century Literature**L. P. Brown**

The philosophical ideas of the century as contained in the works of Montesquieu, Voltaire, and Rousseau. The Encyclopédistes. Prerequisite: French D, or its equivalent, with a grade of C.

Prerequisite course (3-3) (Offered in 1940-41)

A-110B Modern French Novel**E. M. Brown**

French novel from Victor Hugo to the present day, including such authors as: Hugo, Dumas, Stendhal, Balzac, Flaubert, Loti, Anatole France, Bourget, Bordeaux, Bazin, Barres, Romain Rolland, A. Gide, Marcel Proust, and others. Class and outside reading and reports. Prerequisite: French D, or its equivalent, with grade of C.

Prerequisite course (3-3) (Offered in 1939-40)

A-111B Seventeenth Century Dramatic Literature**E. M. Brown**

Reading in class of plays of Molière, Corneille, and Racine. Outside readings and lectures on the background of the seventeenth century in France. Prerequisites: French D, or its equivalent, with a grade of C.

Prerequisite course (3-3)

Comprehensive Reading and Survey Course**The Staff**

Designed to fill up the gaps in the reading done in courses. Class meets once a week for guidance, reports, and quizzes. Required of all seniors entering in French.

Prerequisite course (3)

GENERAL LANGUAGE**LOWER DIVISION COURSE****Latin and Greek Word Derivation****L. P. Brown**

General and elementary course in philology. A study of Latin and Greek roots of most frequent occurrence in English, and of the English words derived from them. Not open to first semester freshmen.

Prerequisite (2) (Offered in 1938-39 and alternate years)

GERMAN**LOWER DIVISION COURSES****Elementary****H. K. Walker**

Pronunciation, reading and grammar, with practice in simple conversation, narration and description, both oral and written. Credit not given for German A unless followed by German B. Students who have had one year of German in high school should register for German A, but will receive only two units of credit. Those who have had two years of German in high school should register for German B, in which case they will receive four units of credit.

Prerequisite course (5-5)

Intermediate**H. K. Walker**

Reading and composition; study of standard prose as basis for class work; collateral reading with written reports; German conversation, the texts read as a basis; dictation. Prerequisite: German B or two years of high school German, or its equivalent. Students with credit for four years high school German, or its equivalent, should enter at German D.

Prerequisite course (3-3)

SC-SD Scientific

Mess

Fall semester. Readings in scientific reader on chemistry, physics, et occasional written reports on scientific subjects read outside of class sight reading. Spring semester. Readings in special scientific or technical works; weekly written reports required; sight reading. Prerequisite: German SC-German B with a grade of C or three years of high school German; German SD-German SC, German C with a grade of C or four years of high school German.

Year course (2-2) (Offered in 1939-40)

SPANISH

Lower division preparation for the liberal arts major in Spanish: Spanish A-B-C-D; French A-B; History 4A-4B.

Liberal arts major in Spanish: Twenty-four units of upper division work of which at least eighteen must be in Spanish, and of which a maximum of six may be in related subjects, arranged in consultation with the chairman of the department. At least a C average in upper division major courses.

LOWER DIVISION COURSES

A-B Elementary

L. P. Bro

Intensive study of Spanish grammar and syntax, with daily written work; class drill in conversational idiom and pronunciation; reading, oral discussion and résumé; dictation; introduction to contemporary prose writers. Credit not given for Spanish A unless followed by Spanish B. Students who have had one year of Spanish in high school may register for Spanish A, but will receive only two units of credit. Those who have had two years of Spanish in high school may register for Spanish B, in which case they will receive four units of credit, or Spanish 3.

Year course (5-5)

C-D Intermediate

Phil

Reading and composition: study of standard prose as basis for class work; collateral reading in prose and drama, with written reports on Spanish; dictation. Class work conducted mainly in Spanish. Individual conferences. Prerequisite: Spanish B or three years of high school Spanish, or its equivalent. Students with credit for four years of high school Spanish, or its equivalent, should enter Spanish D.

Year course (3-3)

1-2 Elementary

B.

A course similar to Spanish A-B, but meeting only three times a week and giving only three units of credit a semester. Intended for those who do not wish to major in Romance languages and for those who wish to go more slowly than is possible in a course meeting five times a week. Students who have had one year of Spanish in high school may register for Spanish 2. Credit not given for Spanish 1 unless followed by Spanish 2.

Year course (3-3)

3-4 Intermediate

L. P. B.

A continuation of Spanish 1-2. Reading of Spanish prose; composition outside reading in Spanish 4, with reports. Students with two years

High school Spanish should register for Spanish 3 or Spanish B. Those with three years should register for Spanish C.
Four course (3-3)

UPPER DIVISION COURSES

1A-101B Conversation and Composition Phillips

Prerequisite: Spanish D, or its equivalent, with grade of C.

Four course (3-3) (Offered in 1939-40)

1A-102B Introduction to Spanish Classics L. P. Brown

Reading from several types of classical literature. Lazarillo de Tormes and other novels of Roguery; selections from Don Quixote, and the Cien Mejores Poesias Castellanas; one drama each from the works of Lope de Vega, Calderon, Alarcon, and Moreto; collateral reading and reports. Prerequisite: A grade of C in Spanish D or permission from the instructor.

Four course (3-3)

1A-104B Spanish-American Literature Phillips

Survey of the whole field of Spanish-American literature during the colonial, revolutionary and modern periods. Lectures, class reading, collateral reading and reports. Prerequisite: A grade of C in Spanish D or permission from the instructor.

Four course (3-3) (Offered in 1940-41)

1A-105B Modern Spanish Drama L. P. Brown

The development of the drama of Spain from the beginning of the nineteenth century to the present time. Prerequisite: A grade of C in Spanish D or permission from the instructor.

Four course (3-3) (Offered in 1939-40)

1A-110B Novel and Short Story in Spain L. P. Brown

The development of the novel and short story in Spain from 1830 to the present time. Prerequisite: A grade of C in Spanish D or permission from the instructor.

Four course (3-3) (Offered in 1941-42)

Comprehensive Reading and Survey Course The Staff

Designed to fill up the gaps in the reading done in courses. Class meeting once a week for guidance, reports, and quizzes. Required of all students majoring in Spanish.

Reading (3)

GEOGRAPHY

Upper division preparation for the liberal arts major in geography and for the junior certificate: Geography 1, 2, 3, and Geology 1A-1B. Recommended: A reading knowledge of French or German.

Liberal arts major (upper division): Twenty-four units of upper division work in geography or 18 units in geography and six units in related subjects arranged in consultation with the chairman of the department.

LOWER DIVISION COURSES

Introduction to Geography: Elements Post, Storm

The nature of maps; weather and the climates of the world; land forms

and their associated soils, with reference to their climatic relation; seas and their coasts. Open to all students.

Fall and Spring (3)

2 Introduction to Geography; Natural and Cultural Regions Storm, P

The regional differentiation of the world by human activity; areal basis of economy and nationality. Prerequisite: Geography 1.

Fall and Spring (3)

3 Elementary Meteorology Bl

An elementary study of the earth's atmosphere and changes in it which produce our weather and influence human affairs. Special attention given to local conditions, instruments, and records.

Spring (3)

12 Geography of California Sto

The main physiographic regions of California and the cultural landscape developed by the successive cultural groups. Prerequisite: Geography 1.

Spring (2)

13 Regions: Advanced Sto

Special regions selected from Africa, Australia, Oceania, and Polar Areas. Prerequisite: Geography 1 and 2.

Fall (2)

UPPER DIVISION COURSES

116 Geography of Latin America P

Regional continental geography. The natural regions of Latin America and their occupational condition and historical evolution. Prerequisite: Geography 1.

Spring (3)

117 Geography of Northwestern Europe P

A study of the cultural development of the countries of Northwestern Europe in relation to physical background and resources. Prerequisite: Geography 1.

Fall (3)

118 Geography of the Mediterranean Area P

A study of the cultural development of the countries of Southern Europe, Western Asia, and Northern Africa in relation to physical background and resources. Prerequisite: Geography 1.

Spring (3)

121 Geography of North America P

The natural regions of North America, their formation and economic and historical development. Prerequisite: Geography 1.

Fall (3)

124 Geography of Asia Sto

The cultural regions of Asia, their physical environment, and historical development. Prerequisite: Geography 1.

Spring (3)

Geography of the San Diego Area

Post

ected individual rural and urban field work of San Diego area including the mapping of a small area and its geographic interpretation. Prerequisites: Geography 1, 2, and Geology 1A. Open only to liberal arts geography majors.

(2) (Offered in 1939-40 and alternate years)

Economic Geography

Storm

world-wide survey of the raw materials of world trade; their production and distribution as related to the major geographic regions of the world. Prerequisites: Geography 1 and 2.

(3)

GEOLOGY

Department requirement in Geology for liberal arts major in Physical Science includes in addition to Geology 1A-1B, the completion of: Chemistry 1A-1B, Mathematics 3A; Physics 1A-1B-1C-1D or 2A-2B; 3A-3B.

Students preparing for advanced work in Geology may substitute Engineering 21 for Mathematics 3A.

French or German, Engineering 1A-1B and Geology 21A-21B are recommended.

LOWER DIVISION COURSES

General

Brooks

composition and distribution of earth materials, and their modification through mechanical and chemical processes of change. Three lectures and one three-hour laboratory period weekly with related field study during the semester.

(4)

Historical

Brooks

ories of earth origin, and the evolutionary history of the earth as evidenced through rock and fossil records. Consideration of the geologic history of selected regions. Three lectures and one three-hour laboratory period weekly, with arrangement for field study and conference during the semester.

(4)

Physiography

Brooks

study of the surface features of the earth with classification of the variety of land forms according to their cause and type. The fundamental meaning of scenery, with frequent illustration from local conditions from the college collection of topographic maps. Two lectures and discussion hour weekly. Open to all students.

(3) (Offered in 1938-39 and alternate years)

21B Mineralogy

Brooks

study of the common minerals and rocks. Use of the blowpipe and chemical reagents but with emphasis upon sight determination. Prerequisite: Geology 1A and high school chemistry, or equivalents.

course (3-3) (Offered in 1939-40 and alternate years)

UPPER DIVISION COURSES

Physical Geology

Brooks

evolution and description of the structural and topographical features of the earth. Faulting, folding, and orogenic forces with practical illus-

trations from the North American Continent. Lectures, discussions, and occasional field trips. Prerequisite: Geology 1A-1B.

Fall (3) (Offered in 1938-39 and alternate years)

101 Geologic Problems

Brook

Reconnaissance of adjacent areas with elementary mapping; or direct reading from a prepared syllabus introducing the several phases of geologic literature; or selection and preparation of material for the museum collections. Prerequisite: Geology 1A-1B. Registration subject to approval of instructor.

Spring (1-4)

GERMAN

(See Foreign Languages)

HEALTH AND PHYSICAL EDUCATION

(See Physical Education)

HEALTH EDUCATION

1 Health and Social Adjustment (Men)

C. E. Peters

An informational course in personal and community hygiene. A study of social hygiene and the hygienic principles of living. Speakers from the County Medical Association on subjects of vital interest enrich the offerings of this course. It is especially desirable that this course be taken in the freshman year.

Fall and Spring (2)

2 Health and Social Adjustment (Women)

B. I. St

An informational course reviewing the principles underlying the improvement and preservation of personal and civic health. Social hygiene in its relations to the practical problems of young women and prospective homemakers. A detailed study of the laws and procedures in local civic health matters of particular interest to women. Required of all freshmen who are candidates for junior standing or the degree.

Fall and Spring (2)

151 Health Education

B. I. St

A course for teacher-training students which includes the study of diseases, common physical defects, and health indices of school children; the detection and control of communicable diseases which may appear in the school; and the elements which underlie a health education program. Methods of presenting personal and group health to children of different ages. Hygiene of the schoolroom, such as seating, lighting, and ventilation.

Fall and Spring (2)

HISTORY

Lower division preparation for the liberal arts major in history and the junior certificate: History 4A-4B or History 8A-8B, and either Political Science 1A-1B or Economics 1A-1B. Both history courses are recommended for those planning to major in history. No student shall enroll in more than one lower division history course during a semester. A reading knowledge of at least one foreign language is expected of history majors.

eral arts major (upper division): Twenty-four units in upper division courses in history to be arranged in consultation with the chairman of the department. The student must, in his senior year, enroll in history 199.

LOWER DIVISION COURSES

14B History of Modern Europe

Lesley

Development of European society and institutions from about 1500 A.D. to the present. *Prerequisite: History 199.* *Course (3-3)*

18B History of the Americas

Nasatir

General survey of the history of the western hemisphere from the discovery to the present time. Emphasis on the process of planting European civilization in the new world, the international contest for the continents, the wars for independence, the development of the American republics, and their relations with each other and with the rest of the world. Based on H. E. Bolton's "Syllabus of the History of the Americas." *Course (3-3)*

UPPER DIVISION COURSES

111B Ancient History

Lesley

First semester I—Social, economic, political and cultural development of the Greek states, with emphasis upon the growth of democracy, attempts at national union and imperialism, Hellenism.

Second semester II—Roman history to the beginning of the medieval period; expansion of Roman imperialism and the main constitutional, economic and religious developments in the republic and empire.

Course (3-3) (Not offered in 1938-39)

121B—Medieval History

Osborn

General survey of European political and cultural development between 500 and 1500 A.D., with special attention to intellectual tendencies and development of institutions which culminated in the emergence of modern Europe after 1500.

Course (3-3)

146B Diplomatic History of Europe Since 1648

Lesley

Course centering around the four major European treaties, their background, drafting and results. First semester, the Treaties of Westphalia and Utrecht. Second semester, the Treaties of Vienna and Versailles, and the major problems created by the latter document.

Course (3-3)

17 History of Modern France

Lesley

Comprehensive survey of the political and social development of France under the Third Republic, 1870 to the present. International and colonial problems of modern France will also be considered.

Course (3)

18 History of Modern Germany

Lesley

Political, social and economic development of Germany after 1870, the Empire and Republic. German post-war problems, imperialism, and the establishment of the Third Reich will receive special attention.

Course (3)

151A-151B England Since the Norman Conquest**Nasa**

A survey of political and constitutional development in England since 1066, stressing the transition from medieval to modern England, Tudor despotism, the struggle for self-government under the Stuarts, the rise and development of present-day political and social institutions.

Year course (3-3) (Not offered in 1938-39)

156A-156B History of British Expansion**Nasa**

A study of the growth, development, and break-up of the older overseas empire: the beginnings of the newer empire after 1783; the rise, federation, and imperial relations of the British Commonwealth of Nations; crown colony system; India under British rule; and British expansion in Africa and the Pacific; development of British mandates.

Year course (3-3)

161 South America Since Independence**Nasa**

The republics of South America. Attention directed to the development of nationality in South America, the struggles for political stability, exploitation of resources, diplomatic and commercial relations with the United States, and other international problems of South America. Survey of present-day conditions, political, economic, and social.

Spring (3)

163 Mexico and the Caribbean Countries**Nasa**

Same plan in general as outlined in History 161. Special attention to relations of the United States with these countries, and to the recent developments in Mexico.

Fall (3)

171A-171B The Rise of the American Nation**Leon**

Semester I. English colonization in North America and the development of colonial institutions and politics. Semester II. The revolutionary movement and the Revolutionary War; the establishment of government under the Constitution to the close of the War of 1812.

Year course (3-3)

173A-173B The Expansion of the United States**Leon**

The rise of Jacksonian Democracy; territorial expansion and the Mexican War; the slavery controversy; the Civil War, and reconstruction; growth and progress of the United States to the World War.

Year course (3-3) (Not offered, 1938-39)

199 Special Course for Advanced Students**Leon**

Required of all students with a history major in the liberal arts curriculum and to be attended during the senior year. Other students may be admitted with the permission of the instructor.

Spring (2)

JOURNALISM

Lower division preparation in journalism for advanced work and junior certificate: History 4A-4B, or 8A-8B; Psychology 1A, 4A; English composition, 4 units; Secretarial Training 2A; Political Science 1A-1B; Economics 1A-1B; Journalism 51A-51B. Recommended: English Literature, 6 units; Speech Arts 1A-1B; Sociology 50; Economics 18A-1B; Journalism 53A-53B.

the profession of journalism introductory work in the fields of literature, history, political science, social science, economics, the arts, etc., is recommended.

The aim in the specialized courses in journalism is to offer introductory training in the principles and practices of journalistic writing only after a solid foundation in correct speaking and writing of English has been laid. Special training in news reporting and editing for student publications for the daily press is emphasized.

LOWER DIVISION COURSES

151B News Gathering and Reporting

Kennedy

Study of news sources and types; practice in news writing; newspaper organization; excursions and special lectures. Course planned for sophomores who have had English 1A-1B, with high school journalism or equivalents. Freshmen admitted by permission of instructor.
Fall course (3-3)

153B Applied Journalism

Kennedy

Work earned for editorial or other staff work throughout a full semester in student publications such as *The Aztec*, *El Palenque*, *Del Sudoeste*, etc., in Fall and Spring (1 to 3-1 to 3)

UPPER DIVISION COURSE

153B Advanced Journalism Practice

Kennedy

Upper division work of the same type as that in 153A-153B, but with increased requirements.

Fall and Spring (1 to 3-1 to 3)

—Not more than six units in all will be given for journalism practice on student publications.

LIBRARY SCIENCE

Use of the Library

J. P. Stone

The chief object is to give a working knowledge of some of the resources of the library which every teacher and student should understand—the decimal classification, the card catalog, periodical indexes, and the most important reference books, together with some instruction in the preparation of bibliographies. The course will be a requirement of those added to the library's staff of student assistants, although it will not prepare the student to become a librarian.

Fall and Spring (1)

MATHEMATICS

For upper division preparation for the liberal arts major in mathematics and for the junior certificate: Mathematics 3A-3B, 8, 4A-4B with an average grade of C or better; Physics 1A-1B or 2A-2B. Two or more of the following are recommended: Astronomy 1, Economics 1A-1B, 2, French 1, German A-B, Engineering 21, Surveying 1A.

For the liberal arts major (upper division): Twenty-four units including at least eight in upper division mathematics, the others being selected from Chemistry 111A-111B, 144, Economics 140, Education 112, Physics 105A-

105B, 112 and other approved courses. The major should be arranged in consultation with the chairman of the department and completed with grade of C or better.

LOWER DIVISION COURSES

A, B, C, D, E, F, G, Introductory Mathematics

Livingston

Instruction and supervised study in elementary mathematics. Students who have taken these courses previously may take them for review, other for the credit indicated. Courses A and D are equivalent to one and a half years of algebra in high school; A, D and G to two years. Courses B, C and E are equivalent to high school courses of the same description. Students regularly enrolled shall be expected to complete at least one course for credit.

A. Algebra to quadratic equations (2).

B. Plane geometry (2).

C. Plane trigonometry (2). Prerequisites: Mathematics A, B, D.

D. Algebra beyond quadratics (2). Prerequisite: Mathematics A.

E. Solid geometry (2). Prerequisites: Mathematics A, B, D.

F. Spherical trigonometry (1). Prerequisites: Mathematics A, B, D, E.

G. Intermediate algebra (2). Prerequisites: Mathematics A, D.

Fall and Spring

1A-1B Elementary Analysis

Livingston, C. E. Sr

A general course including topics for algebra, trigonometry, analytic geometry and calculus. Of interest to students not having time for two or three-year courses in analysis. Either 1A or 1B may be taken for credit, the prerequisite being advanced algebra in high school, or Mathematics D and G. Applications are made to many fields.

1A. The differentiation and integration of algebraic, exponential and arithmetic functions, with selected topics in college algebra.

Fall (3)

1B. A short course in plane trigonometry, with selected topics in college algebra and analytic geometry.

Spring (3)

3A-3B Analytic Geometry and Calculus

Livingston, Wal

Analytic geometry and differential calculus, together with an introduction to the integral calculus. Prerequisites: Trigonometry and advanced algebra in high school, with recommended grades, or permission of department.

Year course (3-3)

4A-4B Intermediate Calculus

Gleason, Living

Integration, partial differentiation, infinite series and multiple integrals. Prerequisite: Mathematics 3A-3B. Solid geometry and college algebra are recommended.

Year course (3-3)

8 College Algebra

Living

Complex numbers, determinants, partial fractions and elementary to

theory of equations. Prerequisites: trigonometry and advanced algebra high school, or equivalent.

and Spring (2)

Intermediate Calculus

Livingston, Gleason

Essentially the same as 4A-4B. Prerequisite: Mathematics 3A-3B. Plane geometry and college algebra are recommended.

(5)

Advanced Calculus and Differential Equations

Livingston, Gleason

Selected topics from advanced calculus with major attention to differential equations. Prerequisite: Mathematics 14A or 4A-4B.

ing (5)

UPPER DIVISION COURSES

College Geometry

Livingston

Extension of the high school course in plane geometry, dealing largely with triangles and circles. Several new procedures, including inversion, are introduced. Prerequisites: Plane geometry and trigonometry.

(3)

Projective Geometry

Livingston

Concurrence of lines, collinearity of points and other properties of figures altered by projections; construction and study of ellipses, hyperbolas and parabolas by means of projections. Prerequisites: Plane geometry and trigonometry.

(3) (Not offered in 1938-39)

Theory of Equations

Gleason

General solutions of algebraic equations; approximate numerical solutions; applications. Prerequisites: Mathematics 3A-3B and 8.

(3)

Analytic Geometry of Space

Gleason

Planes, lines, and quadric surfaces. Prerequisites: Mathematics 3A-3B and 8.

(3)

Advanced Calculus

Livingston

Selected topics in advanced calculus, exclusive of differential equations. Prerequisite: Mathematics 4A-4B, or 4A with 4B taken concurrently.

ing (2 or 3)

Differential Equations

Gleason

Ordinary differential equations of first and second order, with applications. Prerequisite: Mathematics 4B or permission of instructor.

ing (2 or 3)

Statistical Theory and Method

Statistical theory and method from the mathematical standpoint; applications in social and natural science. Prerequisites: Mathematics 4A-4B, and statistics 1A-1B and senior standing.

(3) (Not offered in 1938-39)

199A-199B Special Study

The St

An opportunity is offered for advanced work in algebra, geometry and calculus; or for study of vector analysis, theory of numbers, or history of mathematics. Adapted to the needs of individual students. Prerequisite: at least six units of upper division courses in mathematics with an average grade of B, or senior standing; and permission of the instructor.
Fall or Spring (1 to 3, each semester)

MUSIC

Candidates for a teaching credential in music should refer to the statement "Admission to Teacher Training Curricula" on page 26 and to the other degree requirements on that page and those following. The curriculum for the A.B. Degree with a Special Secondary credential in Music is on page 39.

Lower division preparation for the liberal arts major in music and the junior certificate: Music 1A-1B, 4A-4B; and 2 units of elective music; Aesthetics 1A-1B. The electives in music in both lower and upper division must include at least 6 units in Applied Music (study of voice or an instrument), of which at least 3 units must be in piano. See page 100 for regulations regarding Applied Music.

For information regarding majors and minors in music, and other degrees not found here, consult the Music Education Adviser.

For courses in Appreciation and History of Music, see Aesthetics, page 57.

LOWER DIVISION COURSES

1A Music Reading and Ear Training—Fundamentals of Music L. D. S.

Elementary music theory; scale construction; drill in music reading both with syllables and with words; ear training, elementary music dictation; the elements and materials of music. Basic course used as prerequisite for all advanced music work and for the courses in music education. Text—Gehrken: Fundamentals of Music.

Fall and Spring (2)

1B Music Reading and Ear Training L. D. S.

Tonal and rhythmic dictation, rhythmic writing, sight singing with syllables and with words. Text—Wedge: Ear Training and Sight Singing. Prerequisite: Music 1A, or the equivalent.

Spring (2)

1C-1D Advanced Music Reading and Ear Training L. D. S.

Tonal and rhythmic dictation, rhythmic writing, and sight singing in two and three parts. Text—Wedge: Advanced Ear Training and Singing. Prerequisite: Music 1A-1B.

Year course (2-2)

4A-4B Elementary Harmony Beidh

Scale construction, intervals, chords, structure, modulation, through various types of seventh chord. Especial attention is paid to the key application of problems in harmonization, transposition, and modulation. Prerequisites: Music 1A-1B, or the equivalent, and at least one year of piano study.

Year course (3-3)

105B Advanced Harmony

Beidleman

Completion of harmonic theory; modulation, inharmonic tones, etc. Continuation of harmonic analysis, and keyboard harmony. Melody harmonizing. Prerequisite: Music 4A-4B.

Three course (3-3)

106B Instrumental Music, Elementary

Beidleman

First instruction for beginners on any orchestral instruments, intended to develop a thorough theoretical and practical knowledge of the instruments, and some facility in playing them. Elementary conducting is also included. Especially intended as preparation for orchestral directing. All instruments will be available on a loan basis; others for a low rental.

One course (1-1)

109D* Instrumental Music, Advanced

Beidleman

Composite course, including:

Instrumental Ensemble. The practice and performance of music in small groups of string, wind, and brass instruments. Prerequisite: Fair amount of playing ability on some orchestral instrument.

Instrumental Conducting. Theory and practice, with study of materials and methods. Not open to freshmen. Prerequisite: Music 1A-1B; 109B, or the equivalent.

Two course. Units: (a) alone, $\frac{1}{2}$; (b), with (a), 1.

Vocal Music

L. D. Smith

General course open to all students. Mixed harmony in two, three, four parts; voice quality; phrasing, interpretation, and enunciation considered in detail; study of song material suitable for junior and senior school. Choral conducting.

One and Spring (1)

UPPER DIVISION COURSES

106B Applied Harmony

Beidleman

Including counterpoint, form and analysis, keyboard harmony, creative writing, and instrumentation—theory and practice of arranging music for instrumental combinations. Prerequisite: Music 105A-105B.

Three course (3-3)

Instrumental Music. (See Music 19)

Vocal Music (See Music 20)

L. D. Smith

MUSICAL ORGANIZATIONS

Music majors, credit allowed only in conjunction with Applied Music study. See below.)

111* Treble Clef (Women's) Glee Club

L. D. Smith

Membership based on competitive try-outs.

(Not more than 4 units may be counted toward the A.B. degree)

These courses are recorded by using letters with the number in alphabetical sequence for each semester the course is pursued, as for example, Music 11A, 11B, 11C, etc.

12 or 112* Men's Glee Club

Beidleman

Membership based on competitive try-outs.

$(\frac{1}{2}-\frac{1}{2})$ (Not more than $\frac{1}{4}$ units may be counted toward the A.B. degree)

13 or 113* Orchestra

Beidleman

$(1-1)$ (Not more than $\frac{1}{4}$ units may be counted toward the A.B. degree)

15 or 115* A Cappella Choir

L. D. Smith

Membership based on competitive try-outs.

$(\frac{1}{2}-\frac{1}{2})$ (Not more than $\frac{1}{4}$ units may be counted toward the A.B. degree)

APPLIED MUSIC

Credit in Applied Music is available only for students enrolled in music classes or organizations, and is subject to special permission and arrangement. Credit is not allowed for beginning work in Applied Music. (Credits: 1 unit per semester, for not less than one lesson per week, with six hours of practice per week, totaling at least ten hours instruction and one hundred hours practice per semester. Applied Music is taken under outside private teachers, subject to the approval and supervision of the music department of the college, which determines credit value and grade by examination.

Orchestral Instruments: Music 16 or 116.* Credit for study of an orchestral instrument is granted only upon satisfactory completion of work for an equal length of time in Music 19, 119, Instrumental Music and/or Orchestra or Band.

Voice: Music 17 or 117.* Credit granted only upon satisfactory completion of work for an equal length of time in Music 20, 120, Vocal Music and/or Glee Club.

Piano (or Organ): Music 18 or 118.* Prerequisite: The ability to play satisfactorily hymns and folk songs of the type found in the Golden Book of Favorite Songs.

Minimum attainment for completion of piano requirement in music curriculum is the ability to play at sight accompaniments such as are found in the Teachers Manuals of the Progressive Music Series, Books Three and Four.

PHILOSOPHY

LOWER DIVISION COURSES

5A Introduction to Philosophy

Steinmetz

Elementary orientation; the persistent problems of philosophy, especially in epistemology, metaphysics, and ethics. Prerequisite: Sophomore standing, or consent of instructor.

Fall (3)

5B The Philosophy of Science

Steinmetz

The problems of philosophy systematized according to the main modern divisions of science; the achievements and perplexities of scientific fields; the nature and place of values in a universe of facts. Prerequisite: Philosophy 5A, except that sophomores planning to major in natural science may be admitted without prerequisite.

Spring (3)

* These courses are recorded by using letters with the number in alphabetical sequence for each semester the course is pursued, as for example Music 11A, 11B, 11C, etc.

UPPER DIVISION COURSES

105B The Philosophy of Science

Steinmetz

Same as Philosophy 5B, save that upper division students will be held to more exacting contribution.

Spring (3)

120 Logic, and Philosophy of Mind

Steinmetz

Analysis of fallacies, and the logic of argument and proof; also examination of reflective procedures in various fields of knowledge, and review of some psychological explanations of thought. Prerequisites: Psychology 1A and Philosophy 5A.

Spring (3) (Offered in 1938-39 and alternate years)

130 Ethics

Steinmetz

The meaning of morality; motives and sources of belief, aspiration, ideal; psychological and sociological factors; representative ethical systems; relation of ethics to other axiological studies.

Spring (3) (Offered in 1939-40 and alternate years)

PHYSICAL EDUCATION

Men's Department

Candidates for a teaching credential in physical education should refer to the statement "Admission to Teacher Training Curricula" on page 26.

LOWER DIVISION COURSES

A two-hour activity course each semester is required for the two years of lower division. A medical examination is given each student when entering and the work is fitted, as far as possible, to his needs. The content of the required two years is planned to give each student an opportunity to choose those sports which have carry-over value into after life. Opportunity is given all students to take part in the regular competitive sports program.

A-1B Freshman Activity

Year course, beginning either Fall or Spring ($\frac{1}{2}$ - $\frac{1}{2}$)

C-1D Sophomore Activity

Year course, beginning either Fall or Spring ($\frac{1}{2}$ - $\frac{1}{2}$)

Class sections are so arranged that the student may choose the activity he is most desirous of learning. Fundamentals of the sports listed are taught during the class hour.

A-B-C-D Golf Spring ($\frac{1}{2}$)

A-B-C-D Track Spring ($\frac{1}{2}$)

A-B-C-D Baseball Spring ($\frac{1}{2}$)

A-B-C-D Basketball Spring ($\frac{1}{2}$)

A-B-C-D Tennis Fall and Spring ($\frac{1}{2}$)

A-B-C-D Boxing Fall and Spring ($\frac{1}{2}$)

A-B-C-D Wrestling Fall and Spring ($\frac{1}{2}$)

9A-B-C-D Fall Track Fall ($\frac{1}{2}$)

10A-B-C-D Swimming Spring ($\frac{1}{2}$)

11A-B-C-D Fencing Fall and Spring ($\frac{1}{2}$)

13A-B-C-D American football (Fall ($\frac{1}{2}$))

13X-Y-Z Spring football Spring ($\frac{1}{2}$)

14A-B-C-D Gymnastics Spring ($\frac{1}{2}$)

The following courses fulfill degree requirements for physical education majors and meet State requirements for teaching credentials in physical education.

30 Emergencies

C. R. Smith

The accepted procedure in meeting the emergencies which daily arise in the schoolroom, play or athletic field, beach, mountains, or any of the many places where the physical director is called on for first aid. Special attention given to the arrangement of the apparatus and the activities so that many of the most common accidents are prevented or minimized.
Fall (1)

53 Physical Education in the Elementary School

Schwartz

The content of the State program in physical education forms the basis of the course.

Required of men and women majoring in physical education. Not required of students taking the Education Practicum. Prerequisite: Sophomore standing. Physical Education 37 must precede or accompany.
Fall and Spring (2)

62A Gymnastic Activities

C. E. Peterson

Theoretical and practical work in marching, free exercises, and light and heavy apparatus. Emphasis on progression and method of presenting material. The simplest and most explanatory terminology.
Fall (2)

62B Gymnastic Activities

C. E. Peterson

Acquisition of proficiency in the performance of a great group of gymnastic stunts always popular in the gymnasium and on the playground. Work of the recreational or self-interesting type rather than the formal. Tumbling, stunts, and pyramid-building given chief attention, although games of low organization are also considered.
Spring (2)

66 Playing Rules of Modern Games

Gis

Thorough study of latest rules of modern major and minor sports.
Fall and Spring (1)

72 Principles of Physical Education

Call

Cultivation of a favorable attitude for a professional study of physical education. Ideals and aims of physical education and the relation of physical education to school and society stressed.
Fall (2)

UPPER DIVISION COURSES

54 Organization and Administration of Physical Education **Gross**
 Material presented in Physical Education 53 plus general and specific problems that confront physical education departments in junior and senior high schools and in colleges. Prerequisite: Physical Education 72.
all and Spring (3)

55 Applied Anatomy **C. E. Peterson**
 Mechanics of the human skeletal and muscular systems and their actions in games, formalized activities, and general body movements; mechanical strength and durability as influenced by anatomical factors.
Spring (2)

56A Sports Methods **C. E. Peterson and Staff**
 Different theories and methods of teaching the more highly organized sports: baseball, basketball, tennis, and track.
all (2)

56B Sports Methods **Calland**
 Methods of teaching those sports most adaptable to intramural and interclass competition: golf, handball, soccer, speedball, and volley ball.
Spring (2)

56 Technique of Officiating **Gross**
 Review of material presented in Physical Education 66. Methods of officiating all the sports common to the school or college program; also methods of training student officials. Practice in the handling of elementary, junior high, senior high and intramural college competition.
Spring (2)

9 Technique of Teaching Activities **Physical Education Staff**
 Directed leadership in activities. A course preliminary to practice teaching in which students are given opportunity to develop leadership and teaching technique.
Spring and Fall (1-2)

1 Community Recreation **C. E. Peterson**
 Planned to meet the needs of the various workers in community playground systems apart from schools, as well as the needs of directors of play and recreation in social service institutions, industrial plants, shops, and factories. Special attention given to scout and campcraft.
Spring (2)

2 Theory of Coaching Football **Calland**
 Methods of coaching football. Details of teaching individual fundamentals, offensive and defensive team play, strategy, and conditioning of athletes. Two hours of lecture and three hours of laboratory.
Spring (2)

PHYSICAL EDUCATION

Women's Department *Candidates for a teaching credential in physical education should refer to the statement "Admission to Teacher Training Curriculum" on page 26, and to the outline for the A.B. Degree With Special Credential in Physical Education on pages 43 and 44.*

LOWER DIVISION COURSES

Two hours weekly of directed physical activity are required in freshman and sophomore years. In order to meet this requirement, students taking the curriculum leading to the A.B. degree with an elementary credential must take Physical Education 36A-36B or 36C, 37, and 38A. All other students are required to take Physical Education 36A-36B or 36C, 38A-38B.

36A Fundamental Skills

Bennett

Practice in efficient fundamental body movements. Required of all Freshmen.

Fall and Spring (1½)

36B Folk Dancing or

Bennett

36C Rhythmic Skills

Schwob

Fundamental movements, simple dance forms and improvisation. Required of all Freshmen. Both 36B and 36C required of all women majoring in physical education.

Fall and Spring (1½)

37 Games and Rhythms for the Elementary School

Schwob, Shattuck

Prerequisite: Physical Education 36A-36B or 36C or equivalent.

Fall and Spring (1½)

38A, 38B Sports and Dancing

Physical Education Staff

Sophomores may elect from the following:

- Folk dancing
- Beginning or advanced dancing
- Tennis
- Swimming
- Golf
- Badminton
- Archery
- Stunts
- Tumbling
- Seasonal sports.

53 Physical Education in the Elementary School

Schwob

The content of the State program in physical education forms the basis of the course.

Required of men and women majoring in physical education. Not required of students taking the Education Practicum. Prerequisite: Sophomore standing. Physical Education 37 must precede or accompany.

Fall and Spring (2)

58A-B The activities listed under 38A-B may be taken as 58A-B for additional credit.

SPORTS

1 The Individual Activities, swimming, tennis, golf, archery, badminton and dancing are offered throughout the year. Women majoring in physical education select *one* as a major activity and two others as minors. Skills in the activities thus selected must be maintained as prerequisites for the senior course, Physical Education 185. (See page 106.)

2. The Seasonal Group Sports are volley ball, basketball, hockey, softball or soccer, and baseball. Majors participate in at least *two* seasons of each.

The Woman's Athletic Association sponsors the Intramural Sports program. Under its direction competition in dual and group games is promoted throughout the year. Open to all college women.

8A-B Badminton

Bennett

$\frac{1}{2}$)

3 Social Dancing

Schwob

Required of all women majoring in physical education.

$\frac{1}{2}$)

3 Swimming

Shafer

Beginning. $\frac{1}{2}$ unit.

Intermediate. $\frac{1}{2}$ unit.

Life Saving. $\frac{1}{2}$ unit.

Students passing examination receive American Red Cross Life Saving certificate.

3C is required of women majoring in physical education.

3 Tennis

Shafer, Bennett

Required of women majoring in physical education.

$\frac{1}{2}$)

3 Golf

Schwob, Supervising

Required of women majoring in physical education.

$\frac{1}{2}$)

1 Archery

Shafer

Required of women majoring in physical education.

$\frac{1}{2}$)

UPPER DIVISION COURSES

Open to all women Required of women majoring in physical education.

2 Emergency and Safety Programs

Bennett

Prevention of accidents; practical application of first aid methods leading to American Red Cross First Aid Certificate.

All (1) (Offered in 1938-39 and alternate years)

3 Administration of Secondary Physical Education

Schwob

Study of administrative problems applied to high school situation including organization of instructional and recreational programs, classification of students, and routine administration.

Offering (2) (Offered in 1938-39 and alternate years)

5 Applied Anatomy

C. E. Peterson

Mechanics of the human skeletal and muscular systems and their actions in games, formalized activities, and general body movements; mechanical strength and durability as influenced by anatomical factors.

Offering (2)

7A-157B Sports Methods

Shafer

Practice for skill, study of rules, and of coaching methods. Prerequisite: one season's experience in at least four of the following sports—volley ball, basketball, hockey, speedball, soccer, baseball.

Offering course (2-2)

158 Stunts and Tumbling**Benne**

A practical course in personal technique. Progressive series of individual, and group stunts, including simple pyramids.

Spring (½) (Offered in 1938-39 and alternate years)

160 Principles of Teaching Gymnastics**Schw**

Gymnastic materials and methods followed by practice in teaching marching gymnastics and use of apparatus.

Fall (2) (Offered in 1939-40 and alternate years)

161 Folk Dancing**Schw**

Practice in folk and clog dancing. Methods of presentation and study costumes and customs related to the dance. Notebooks required. Open to all upper division men and women.

Spring (2) (Offered in 1939-40 and alternate years)

164A-164B Advanced Dancing**Schw**

Prerequisite: Physical Education 36C, Beginning Dancing or equivalent. Year course (2-2) (Offered in 1938-39 and alternate years)

168 Physiology of Exercise**Benne**

A non-laboratory course emphasizing the relation of physiology to muscular exercise in physical activities.

Spring (2) (Offered in 1939-40 and alternate years)

169 Technique of Teaching Activities**Schw**

Observation, lesson planning, and teaching of college classes.

Fall and Spring (3)

170 Recreational Leadership**Shafer and Assistant**

Fundamentals of recreational leadership developed by instruction in Scoutcraft, Camp Fire lore, Girl Reserve activities, the study of school recreational needs and facilities, and of civic recreation. Open to all upper division women. Recommended to students interested in the recreational aspects of social service.

Spring (2) (Offered in 1939-40 and alternate years)

173 Principles of Physical Education**Schw**

A study of the more significant influences shaping the trend of physical education in the past and present. General philosophy and principles of physical education and its relation to general education.

Fall (2) (Offered in 1938-39 and alternate years)

177 Individual Program Adaptations**Schw**

Adjustments of the physical education program to the physical needs and capacities of individuals; problems concerning protective and preventive measures which are not highly specialized corrective phases.

Spring (2) (Offered in 1938-39 and alternate years)

185 Technique of Individual Sports**Sha**

A course summarizing rules, teaching methods, and individual playability. A required senior course. Can not be taken until all requirements regarding sports and games have been fulfilled. (See page 10)

Fall (1)

PHYSICAL SCIENCE

Lower division preparation for the liberal arts major in physical science and for the junior certificate: Fulfillment of the departmental requirements for upper division work in at least two of the following sciences: chemistry, geology, physics. Recommended: A reading knowledge of French and German.

Liberal arts major (upper division) in physical science, required: Twenty-four units of upper division work in two or more of the physical sciences, chemistry, geology, and physics, with a minimum of six units in each of two of these sciences.

LOWER DIVISION COURSE

Introductory

Moe

Survey course dealing with the nature of man's physical universe. The subject matter covered includes work in fields of astronomy, chemistry, geology and physics; chosen to provide a background for present-day physical science thought. Not open to students who have taken high school or college physics and chemistry or either of these subjects combined with astronomy or geology.

Fall and Spring (3)

PHYSICS

Lower division preparation for the liberal arts major in physics and for the junior certificate: Physics 1A-1B-1C-1D; Chemistry 1A-1B; Mathematics 3A-3B and 4A-4B, or their equivalents. Recommended: A reading knowledge of French and German.

Liberal arts major (upper division) in physics, required: Twenty-four units of upper division work in physics including Physics 105A-105B and 107A-107B. Six of the twenty-four units may be elected in related subjects on consultation with the chairman of the department.

LOWER DIVISION COURSES

1A-1B General Mechanics and Heat

Moe

Mechanics, properties of matter, and heat. A development of the fundamental ideas which underlie the subject of physics, and the application of them in the discussion of practical problems. Lectures, text assignments, problem sets, and experimental laboratory work. Two lectures, and one laboratory period each week. Prerequisites: High school physics or chemistry, and trigonometry. Students deficient in any part of this requirement may enroll only with the permission of the instructor.

Year course (3-3)

1C-1D General Electricity, Magnetism, Sound, and Light

Baird

Continuation of Physics 1A-1B for students in the sophomore year. Two lectures and one laboratory period each week.

Year course (3-3)

2A-2B General

Baird

Properties of matter, mechanics, heat, sound, light, electricity, and magnetism. A nonengineering course. Lectures, demonstrations, and discussions. Prerequisite: Two years of high school mathematics.

Year course (3-3)

3A-3B Physical Measurements

Baird

Laboratory work in mechanics, properties of matter, heat, sound, light, electricity, and magnetism. Usually taken in conjunction with Physics 2A-2B.

Year course (1-1)

UPPER DIVISION COURSES

105A-105B Analytical Mechanics

M

Treatment of fundamental principles of statics, kinematics and dynamics of particles and rigid bodies. Prerequisites: Physics 1A-1B or 2A-2B and a working knowledge of calculus.

Year course (3-3) (Offered in 1938-39 and alternate years)

106 Optics

Baird

Refraction, color, interference, diffraction, polarization, radiation, and optical instruments. Prerequisite: Eight units in physics.

Fall (3) (Offered in 1938-39 and alternate years)

107A-107B Electrical Measurements

Baird

Devoted mainly to the study of potentiometer methods, capacity, inductance, resistance, and magnetic flux. Two lectures and one laboratory period each week. Prerequisite: Eight units in physics.

Year course (3-3) (Offered in 1939-40 and alternate years)

108 Modern

Baird

An introductory survey of the problems of modern physics. Theories of atomic structure and series in optical spectra, radioactivity, conduction of electricity through gases, radiation and the quantum theory. Prerequisite: Eight units in physics.

Spring (3) (Offered in 1938-39 and alternate years)

112 Advanced Heat

M

Thermal properties of matter. An introduction to the kinetic theory of gases and the laws of thermodynamics. Prerequisites: Eight units in physics and a working knowledge of calculus.

Spring (3) (Offered in 1939-40 and alternate years)

114 Wave Motion and Sound

M

A study of wave motion and its applications to sound production and transmission. The principles of musical instruments and architectural acoustics. Prerequisite: Eight units in physics.

Fall (3) (Offered in 1939-40 and alternate years)

199 Special Study

Baird, M

Reading or work on special problems in physics. Admission by consent of the instructor. Credit and hours to be arranged in each case. Open to students who have completed at least eight units of work in the department with grade of A or B.

Fall and Spring (1 or 2—1 or 2)

POLITICAL SCIENCE

Lower division preparation in political science for advanced work and the junior certificate: Political Science 1A-1B and Economics 1A-1B and History 4A-4B. High school civics is presupposed in the following courses:

LOWER DIVISION COURSES

A-1B Comparative Government

Leonard

comparative study of typical governments. Semester I: England, France, and Switzerland. Semester II: Italy, Germany, Russia, and Japan.

year course (3-3)

A-71B American Government and Politics

Osborn

A—Governmental organization in the United States; the federal system, organization, powers and functions of the legislative, executive and judicial branches of the national government, and the expansion of its activities.

B—Development of the means of democratic control of government in the United States; the history, motivation, methods and control of political parties; party machines; election systems; influence of minority groups; the lobby; the press.

This course is not open to freshmen.

year course (3-3)

UPPER DIVISION COURSES

1 American Institutions

Leonard

origins and principles of the Constitution of the United States, and a survey of the political institutions which have developed under it. Prescribed by State law for all candidates for the bachelor's degree. Enrollment limited to juniors and seniors, except with the consent of the instructor. Attention is called to the fact that this course is offered only during the fall semester.

fall (2)

1 Theory of the State

Leonard

the nature of the State, its organization and activities, and its relation to the individual and to other states. Special attention will be given to recent developments in the field of political thought.

fall (3)

3 American Political Ideals

Leonard

underlying theories and principles of American governmental policy.

spring (3)

A-136B Problems of the Pacific Area

Osborn

particular emphasis during the first semester upon the diplomatic problems of the Far East. During the second semester attention will also be given to problems of internal government resulting from the impact of European civilization on the Far Eastern states, as well as colonial organization in that area.

year course (3-3)

Theories of International Relations

Osborn

the development of ideas concerning international relations from ancient through modern times. Theories of nationalism, imperialism, internationalism, and cosmopolitanism will be reviewed and their validity considered in the light of modern experience.

fall (3)

142 International Organization

Osbor

Prewar attempts at international organization, the effect of the World War on ideas of international relationships, postwar attempts at organization. Special attention will be given to the organization and development of the League of Nations, its machinery, accomplishments and failures, and to national attitudes toward cooperation since the war.

Spring (3)

175A-175B American Constitutional Development

Leon

A study of the work of the Convention of 1787, and of significant phases of American constitutional law.

Year course (3-3) (Not offered in 1938-39)

PSYCHOLOGY

Lower division preparation in psychology for advanced work and junior certificate. Required: Psychology 1A-1B, Zoology 1A-1B, or Biological Science 10A-10B, Philosophy 5A-5B. Recommended: French, German, chemistry, physics, and anthropology.

LOWER DIVISION COURSES

1A General

Steinm

An elementary survey of normal adult psychology, focused upon personality; the subjective and objective aspects of behavior. Furnishes basis for all other courses in psychology. Prerequisite: Sophomore standing.

Fall and Spring (3)

1B General

Steinm

A continuation of general psychology designed to familiarize the student with (1) elementary experimental methods, (2) famous experiments in psychology, and (3) some one topic (not included in upper division courses) in which he pursues an independent experimental approach. Prerequisite: Psychology 1A.

Spring (3)

2A Psychology and Life

General psychology with a minimum of technical terminology and desirable materials. Made as practical as is consistent with the field to be covered in a beginning course. Meets general psychology requirements in all curricula, but does not meet prerequisites for psychology 1B.

Fall and Spring (3)

4A Applied

Applications of psychology to problems of the individual in learning, making social adjustments, choosing a vocation, developing desirable personality traits, and achieving success and happiness. Survey of psychology as applied in education, music, art, speaking, writing, law, and medicine. Prerequisite: Psychology 1A. Recommended: Psychology 1B.

Fall (2)

4B Psychology Applied in Business

Applications of psychology to a wide range of problems encountered by the man in business. Motives, attitudes, habits, and traits in their relation to behavior of employer, employee, and executive. Advertising, salesmanship, and problems of selecting, placing and increasing the efficiency of employees. Business cycles, and business research. Prerequisite: Psychology 1A. Recommended: Psychology 1B and Psychology 4A.

Spring (2)

12 Genetic (Growth and Development of the Child) Steinmetz

the mental and physical growth and development of the child, especially with relation to norms of structure and function. Diagnosis of individual children by comparison with norms. Behavior problems and the growth of personality traits as conditioned by physical and mental factors. An intensive study of one child presenting a problem of physical or mental maladjustment made by each student. Prerequisite: Psychology 1A. Recommended: Psychology 1B.

Fall and Spring (3)

15 Mental Testing

brief history of intelligence testing and the fundamental assumptions underlying the construction of tests. The Stanford revision of the Binet-Simon test illustrated by demonstrations. Each student required to give at least 20 individual tests. Group intelligence tests discussed and demonstrated. Prerequisites: Psychology 1A and Education 108. Recommended: Psychology 1B, 102, Education 140.

Fall (3)

7 Problems of Personal Adjustment Palmer

typical problems of personal adjustment and solutions in the light of current psychological theories. Adjustment to family, leisure, and work situations. Study of borderline disturbances and pseudo-adjustments. Prerequisite: Psychology 1A. Recommended: Psychology 1B, 102.

Spring (3)

8 Mental Hygiene

problems, personality adjustment, emotional problems, attitudes, concepts, neurotic behavior, conduct disorders of both child and adult.

The beginnings of undesirable attitudes and habits and methods of treating them are stressed more than serious cases of maladjustment which are either incurable or problems for a psychiatrist. The methods of building wholesome personality are emphasized more than the analysis of extreme disorders. Prerequisite: Psychology 1A. Recommended: Psychology 1B, 102.

Fall and Spring (3)

5 Social

personality as it develops in relation to social environment. Suggestion, imitation, leadership, the crowd, public opinion, social control, prejudice, propaganda, sex differences, race differences, etc. Prerequisite: Psychology 1A. Recommended: Psychology 4A.

Spring (3)

9 Abnormal Psychology Palmer

the relation of psychology to the psycho-neurosis and insanity; the appearance of abnormal traits in incipient stages of mental disturbances. Methods of diagnosis and early treatment.

Fall (3)

Educational Psychology See Education 130.

Educational Measurements See Education 108.*

Students taking a curriculum in which Education 108 is required, must substitute another three-unit course in education, if they wish to count Education 108 in a psychology minor.

SOCIAL ECONOMICS

100 Science of Sociology

Hink

A critical analysis of social processes and products, of the methods sociological investigation and of ultimate tests of social policies.
Fall (3)

101 Problems of the Modern Community

Hink

A study of the typical problems of the modern urban and rural community.
Spring (3)

103 Child Welfare

Dennste

A study of the dependent, the neglected, and the handicapped child in relation to the various movements and agencies which have developed in effort to cope with the problems presented by them.
Fall (2)

104 Field Studies

Dennste

Exploratory library and field studies of the work of character-building and welfare agencies. Lectures, reading and field studies.
Spring (2)

E109 Fields of Social Work

Worces

The many sided problems confronting the Social Worker, and the specialized efforts which have been developed to cope with these problems. Family Case Work, Child Welfare, Probation and Delinquency, Psychiatric Social Work, Medical Social Work, Group Activities, Community Organization.
Extension Division, Fall (2)

E110 Industry and Social Work

Worces

A study of emergence of social problems, beginning with the Industrial Revolution, and continuing down to the present time. Child Labor, Women in Industry, Unemployment, Industrial Accidents and Diseases, Immigration, and Tenement Housing are considered among the problems. The Labor Movement, Social Legislation including programs for Social Insurance, Welfare Programs of Industry, Vocational Education, Surveys are viewed as attempted solutions of these problems.
Extension Division, Fall (2)

E111 Social Legislation

Worces

A study of the particular problems which have given rise to Social Legislation, both by the Federal Government and by the States. Emphasis placed upon the actual practice of Social Work as determined by the laws.
Extension Division, Spring (2)

E112 Social Case Work

Worces

A study of the objectives, the underlying assumptions, and the technique of Case Work, emphasizing the fundamental concepts which underlie "generic case work," and indicating the modifications which are essential.

its adaptation to various fields. Case work is here presented as a developing process as it avails itself of the contributions of modern science, and attempts to meet the changing problems of our industrial life.
Extension Division, Spring (2)

SPANISH

(See Foreign Languages)

SPEECH ARTS

LOWER DIVISION COURSES

Fundamentals of Public Speaking

Pfaff

Training in fundamental processes of oral expression; methods of training and organizing material; outlining principles of attention and delivery; extemporaneous speaking and open forum debating; practice in instruction and delivery of type forms of speech.

Fall and Spring (3)

Extemporaneous Speaking (or Forum Speaking)

Pfaff

Practice in extemporaneous speaking on subjects of current interest both national and local, with stress laid on the organization and delivery of pertinent material. Forum discussion will provide speakers with the opportunity of assembling facts quickly to meet such questions as any given situation might demand.

Spring (3)

Oral Interpretation

Pfaff

Oral interpretation of longer literary selections, both in poetry and prose; a fundamentals course designed for the beginning students in drama as well as those majoring or minoring in English literature.

Fall (3)

Advanced Interpretation

Pfaff

Emphasis placed on stage poise and grace with adequate attention given to variations in the presentation of literary selections. Much opportunity provided for individual and group creative work. No prerequisite. Credits limited.

Spring (3)

Corrective Speech

Pfaff

Corrective laboratory training prescribed on the basis of vocalization tests made on Electro-Vox Recording Machine. Required of education majors who fail to meet speech requirements test. Private clinical assistance given to stutterers and lispers.

Fall and Spring (1) (9 weeks' course)

-55B Dramatic Production

Jones

Course for first and second year students in which, through participation, they acquire an understanding of certain dramatic periods and types as found in English literature. Individual and group expression coordinated and developed in production of scenes, acts, and plays—a fundamental drama course. No prerequisite.

One-semester course (3-3) (Offered in 1939-40 and alternate years)

55C-55D Dramatic Expression

A course designed to help first and second year students realize and develop their own abilities for expressing character and life. Coordination of thought, voice, and body, acquired through interpretation, impersonation, and acting of contemporary situations, creative and standard drama. History, technique, and use of dramatic expression studied. Informal participation by all. Best work given public performance. A fundamental course. No prerequisite.

Year course (3-3) (Offered in 1938-39 and alternate years)

UPPER DIVISION COURSES

101B Argumentation and Debate

Obtaining and organizing of evidence and the construction and use of the brief; study and discussion of current issues; the presentation of formal and informal debates. Attention to intramural and intercollegiate debating.

No credit for students having taken 1B previous to 1934-1935.

Spring (3)

110 Recreational Reading

See English, page 84.

155A-155B Advanced Dramatic Expression

For upper division students training for leadership in different fields as well as drama. More advanced forms of dramatic expression studied to develop creative abilities in interpretation, writing, acting, and stagecraft developed in relation to various subjects and activities conducted through individual research projects, group discussion and participation. Original work encouraged. Prerequisite: A fundamental drama course.

Year course (3-3) (Offered in 1939-40 and alternate years)

156A-156B Advanced Dramatic Production

The study of more difficult dramatic types and periods in the production of poetic and prose literature of different countries. Arrangement, organization, creation, direction and presentation of class room, recreational and other forms of performances. Practical participation and demonstration. A course designed for students majoring in other subjects as well as the theater arts.

Year course (3-3) (Offered in 1938-39 and alternate years)

163 Rhythm, Pantomime and Choric Verse

A course planned for those desiring to engage in special drama activities, or to utilize the newer forms of dramatic expression.

Spring (2)

175 Major Speech Disorders

Clinical survey of newest methods of speech correction with special emphasis given to stammering and cleft-palate speech. One of required courses for Special Corrective Credential.

Spring (3)

ZOOLOGY

(See Biological Sciences)

FACULTY

For the Year 1937-1938

- JOHN R. ADAMS, M.A.—Associate Professor of English.
- GEORGIA C. AMSDEN—Associate Professor of Commerce.
- W. AULT, M.A.—Dean of Education; Professor of Education.
- WINIFRED KOTTER BACON, M.A.—Training Supervisor; Associate Professor of Education.
- W. BAIRD, M.A.—Professor of Physics.
- JEFFORD H. BAKER, JR., M.A.—Instructor in Spanish and French.
- JAMES RICHMOND BARBOUR, Ph.D.—Principal of the Training School; Assistant Professor of Education.
- FRED BEIDLEMAN, B.S., B.Mus.—Associate Professor of Music.
- ERTRUDE SUMPTION BELL, M.A.—Professor of Psychology.
- TRIEL BENNETT, M.A.—Instructor in Physical Education.
- MARJORIE KELLY BORSUM, M.A.—Assistant Professor of Art.
- PHILIP BROMLEY, M.S.—Instructor in Commerce.
- LYLOR BROOKS, A.B.—Assistant Professor of Geology.
- ELIZABETH McPIKE BROWN, Ph.D.—Assistant Professor of French.
- SLIE P. BROWN, Ph.D.—Professor of Spanish and French.
- O BLAKELY CALLAND, M.S.—Associate Professor of Physical Education.
- Y E. CAMERON, Ph.D.—Professor of Economics.
- THERINE E. CORBETT, A.M.—Training Supervisor; Associate Professor of Education.
- MES ENSIGN CROUCH, M.S.—Assistant Professor of Biology.
- BY CHESTER DEPUTY, Ph.D.—Associate Professor of Education.
- DRENC L. SMITH DICKHAUT, M.A.—Professor of English.
- ORGE E. DOTSON, M.A.—Registrar and Director of Student Personnel; Assistant Professor.
- IN MORTIMER GLEASON, M.A.—Assistant Professor of Mathematics.

- MORRIS HUBBARD GROSS, A.B.—Director of Athletics; Associate Professor of Physical Education.
- ILSE HAMANN, M.A.—Assistant Professor of Art.
- EDITH C. HAMMACK, B.A.—Training Supervisor; Associate Professor of Education.
- ISABELLA S. HAMMACK, M.A.—Training Supervisor; Assistant Professor of Education.
- DOROTHY R. HARVEY, M.A.—Assistant Professor of Botany.
- ROBERT D. HARWOOD, Ph.D.—Professor of Zoology.
- WALTER R. HEPNER, Ed.D.—President.
- EVERETT GEE JACKSON, A.B.—Associate Professor of Art.
- MYRTLE ELIZABETH JOHNSON, Ph.D.—Professor of Biology.
- SYBIL ELIZA JONES, M.L.—Assistant Professor of Speech Arts.
- JOSEPH SUMNER KEENEY, Ph.D.—Assistant Professor of English.
- GENEVIEVE KELLY, A.M.—Assistant Professor of Sociology.
- CHESTER B. KENNEDY, A.B.—Instructor in English.
- CHARLES B. LEONARD, Ph.D.—Professor of History.
- LEWIS B. LESLEY, Ph.D.—Professor of History.
- GEORGE R. LIVINGSTON, M.A.—Associate Professor of Mathematics.
- MARY IRWIN McMULLEN, M.A.—Dean of Women; Associate Professor.
- ELMER ALLEN MESSNER, M.A.—Assistant Professor of Chemistry.
- CHESNEY RUDOLPH MOE, M.A.—Assistant Professor of Physics.
- ABRAHAM P. NASATIR, Ph.D.—Professor of History.
- MARGUERITE A. NORDAHL, M.A.—Training Supervisor; Assistant Professor of Education.
- CLARENCE G. OSBORN, Ph.D.—Assistant Professor of History and Political Science.
- IRVING E. OUTCALT, M.A.—Vice President; Professor of English.
- LENA E. PATTERSON, M.A.—Associate Professor of Art.
- RAYMOND CARVER PERRY, Ed.D.—Director of Teacher Training and Placement; Associate Professor of Education.
- ARTHUR G. PETERSON, M.A.—Dean of Liberal Arts; Professor of Economics.
- CHARLES E. PETERSON, M.A.—Dean of Men; Director of Physical Education for Men; Associate Professor.
- PAUL LEWIS PFAFF, A.M.—Assistant Professor of Speech Arts.

- WALTER T. PHILLIPS, M.A.—Associate Professor of Spanish and French.
- WATHREEN CLOCK POST, A.M.—Training Supervisor; Assistant Professor of Education.
- AUREN C. POST, Ph.D.—Assistant Professor of Geography.
- WUDLEY H. ROBINSON, M.S.—Associate Professor of Chemistry.
- PENCER L. ROGERS, Ph.D.—Assistant Professor of Anthropology.
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WILLIAM E. OUTCALT.....Vice President
JESSE W. AULT.....Dean of Education
ARTHUR G. PETERSON.....Dean of Liberal Arts
CHARLES E. PETERSON.....Dean of Men
HELEN MILLER.....Dean of Women
RS. FAY V. PERRY.....Dean of Junior College Guidance
GEORGE E. DOTSON.....Registrar and Director of Student Personnel
LYMOND C. PERRY.....Director of Teacher Training and Placement
MES R. BARBOUR.....Principal of the Training School
HEN PAUL STONE.....Head Librarian
W. VAN HORNE.....Financial Secretary
MORGIA C. AMSDEN.....Faculty Secretary

1939

JULY

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1940

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DECEMBER

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CALENDAR 1939-1940

SUMMER SESSIONS, 1939.

Term I, six weeks, June 19-July 28.

Term II, three weeks, July 31-August 19.

FALL SEMESTER, 1939-1940.

- August 28—Applications for Admission for the Fall Semester must be filed on or before this date.
- September 6, 7, 8—Orientation and Testing Program for all New Students (Attendance required, three full days).
Aptitude Test—8:00 A.M., September 6.
Fundamentals Test—1:00 P.M., September 8.
- September 9—Admission Day—Offices closed.
- September 11—Registration and payment of fees.
- September 12—Instruction begins—late registration fee becomes effective.
- November 30 and Dec. 1—Thanksgiving Day Recess.
- December 15—Last day before Christmas Recess begins.
- January 2—Classwork resumes.
- January 18-25—Mid-Year Examinations.

SPRING SEMESTER, 1939-1940.

- January 12—Applications for admission for the Spring Semester must be filed on or before this date.
- January 26—Executive Committee Meeting at 1:00 P.M.
- January 27—Orientation for all New Students (Attendance required).
Aptitude Test—8:00 A.M., January 27.
Fundamentals Test—1:00 P.M., January 31.
- January 29—Registration and payment of fees.

January	30—Instruction begins—late registration fee becomes effective.
February	22—Washington's Birthday Holiday.
April	1-5 incl.—Easter Recess.
April	28—Founder's Day.
May	30—Memorial Day Holiday.
May 29-June 6 incl.	—Final Examinations.
June	7—Annual Commencement.

SUMMER SESSIONS, 1940.

Term I, six weeks, June 17-July 26.

Term II, three weeks, July 29-August 17.

THE COLLEGE

Historical Sketch

The growth of the San Diego State College has involved three stages of development. It was known as the State Normal School of San Diego when it was established by legislative enactment in 1897 and opened its doors in 1898.

The second cycle of its growth began in 1921 when the legislature converted all the California normal schools into State teachers colleges. When San Diego Junior College was merged with the teachers college, Lower division courses were then available in a single institution for the various types of students in the community. From 1927 to 1934, the junior college relationship was discontinued, and the teachers college resumed the lower division offerings. These offerings were enriched when the junior college arrangements were resumed in September, 1934.

Four-year curricula, leading to an A.B. degree with a major in education, were established in 1923. The State Board of Education, at that time and subsequently, authorized the following teaching credentials, which are to be granted in connection with the degree: general elementary, general junior high school, general junior high-general elementary; special secondary in art, business education, music, and physical education. Presecondary curricula were first authorized by the State Board of Education in 1928 and major subjects were approved from time to time until a total of fifteen was finally reached: art, chemistry, commerce, economics, education, English, geography, history, mathematics, music, physical science, physics, Romance languages, social sciences, and zoology.

In September, 1935, the college entered upon its third phase when it was, by legislative enactment, the San Diego State College. This change in status permitted the college to drop the requirement in education courses from the curricula previously known as presecondary and to convert them into liberal arts curricula leading to the A.B. degree with one of the fifteen majors enumerated above.

Location and Environment

Known as a winter resort with a mild but invigorating climate, San Diego has become equally famous for its cool summers. High cultural standards in art, music, literature and science create a stimulating environment for a college. Many of these advantages are to be found in the heritage resulting from the expositions of 1915-16 and 1935-36, including the buildings themselves, which portray the best types of Spanish colonial art and architecture. Housed in these buildings are the Fine Arts Gallery, exhibits in anthropology, natural history, and American archaeology which are in many respects unsurpassed. The Poor Organ, the Ford Bowl, and the horticultural gardens make Balboa

Park, in which all these facilities are located, world renowned. Scripps Institute of Oceanography, operated by the University of California at La Jolla, gives opportunity for important cooperation in biological sciences.

Buildings and Equipment

On February 1, 1931, the college was moved to the new campus, located one mile north of the city's principal east-west boulevard, El Camino Avenue. The buildings are of Spanish-Moorish architecture which is well suited to the landscape and climate of this region. They include the Academic Building, which houses lecture halls, classrooms and administrative offices; the Science Building; the Library, the Little Theatre, the Training School; Scripps Cottage (a social club house for women students); the Cafe and Book Store; and the Physical Education Building, a structure with adequate facilities for both men and women. The gymnasium contains a very fine basketball floor with stands that can accommodate 1500 spectators. A fine concrete stadium, constructed on a natural site, has a seating capacity that is adequate for present needs. Ultimately it will accommodate approximately 45,000 people.

Facilities for the Training of Teachers

The college maintains a modern elementary training school on campus where it has developed an extensive program for the education of elementary school teachers. The classroom-laboratory plan which provides for the use of work-rooms, the library, and shops, affords unusual opportunities for the induction of students into teaching.

By arrangement with the San Diego City Schools, practice teaching is provided in the Euclid elementary school for one-half day throughout the semester, and a somewhat similar arrangement exists at the Woodrow Wilson Junior High School for students who are preparing to teach junior high and special secondary school subjects. Students preparing to teach only special secondary school subjects may be assigned to observe in the senior high schools.

The Library

The library facilities of this college are noteworthy for an institution of its size. The library consists of well over 60,000 volumes selected to meet the requirements of a modern educational institution. Seven professionally trained librarians are available to render assistance to students in their reading and reference work.

The Training School Library, representing a collection of 9000 volumes, possesses equipment and building facilities that are unique.

Living Accommodations

The college does not maintain dormitories since nearly all of the students live with parents or guardians. Living arrangements for students whose homes are not in San Diego or within commuting distance are made through the offices of the Dean of Women or the Dean of Men. All women students are urged to live in the residence hall adjacent to the campus. Careful consideration is given to study conditions, health, living and adequate social opportunities. Room and board may be secured

as little as \$160.00 per semester, payable in four installments. Opportunities to reduce this figure by working a few hours each week are occasionally available. Reservations should be made in advance through the Office of the Dean of Women. Where students find other accommodations more desirable, written permission from parents must be secured and filed with the Dean of Women.

Student Life

A rich field of extra-curricular activities is available to the student throughout his college life. The student is urged to carefully select these activities in order that he may profit by these extra-class experiences without lowering his standards of scholarship. The Student Handbook, available at time of registration, gives information concerning activities which include organizations in every department of the college, and opportunities for individual and group experience in the social, athletic, cultural, religious and governmental life of the campus.

Student Health Service

Health Department is maintained for the protection and care of student health. A complete physical examination is required of each student upon admission to college. Careful attention is given to cases requiring remedial treatment or to cases in which a modification of study load or of participation in physical activities seem advisable.

A representative of the Health Department is available throughout the entire day for consultation and emergency treatment. Students who have been absent because of illness should receive clearance from the Health Department before returning to classes.

Placement Service

Placement Service is maintained by the college as a clearing house of employment information for employers of State College graduates and for students leaving college before graduation.

Included among the services are liberal arts placements, teacher placements, and part-time jobs both on and off the campus.

Official student contacts with the Service should be made through the Placement Secretary. Employers may contact either the Placement Secretary or one of the following:

Liberal arts and industrial placements, Mrs. Frances Torbert.
Teacher placement, Dr. Raymond C. Perry.
N.Y.A., Dean Evelyn Miller, Dean C. E. Peterson.

Alumni Association

The college has an active Alumni Association. Since its reorganization in March, 1921, the association has steadily gained in membership. The annual Homecoming is an important event each year; other meetings take place on dates of important athletic contests. The association sponsors the organization of Aztec clubs in various communities. Information concerning the association may be obtained by writing the Secretary in care of the college.

FEES, EXPENSES, AND LOAN FUNDS

Probable Expenses for One Semester

An estimate of the expense of attendance for one semester is given below. No estimate is made as to the cost of clothing, or other personal items, since these figures vary with the demands of the individual. Laboratory fees are additional.

A Partial Estimate of Expenses

One Semester		Minimum	Maximum
Fees and Deposits -----		\$ 20.00	\$ 27.00
Books -----		12.00	18.00
Board and Room -----		125.00	175.00
Incidentals:			
Transportation -----		10.00	20.00
Lunches (daily in cafe) -----		35.00	50.00
Organizations:			
<i>Average</i>			
Fraternity		} 12.50	20.00
Initiation and pin	\$15.00		
Dues and Assessments	6.00 per semester		
Sorority		} 12.50	20.00
Initiation and pin	15.00		
Dues and Assessments	10.00 per semester		
Miscellaneous -----	5.00		

Before enrolling in college, the student should possess sufficient resources to meet the minimum expenses for one semester. A limited amount of clerical work in offices and in the library may be offered from time to time, but ordinarily it is not sufficiently remunerative to reduce expenses materially.

Cost of Fees and Deposits (Subject to Revision)

PAYABLE AT TIME OF REGISTRATION

Registration fees:

Resident students -----	\$ 6.50
Limited students (5 units or less)—per unit -----	2.50
Non-resident students—1st semester -----	75.00
2d and subsequent semesters -----	37.50
Registration fee -----	1.00
General service deposit -----	3.00
Chemistry deposit (each course in chemistry) -----	5.00
Geology deposit (Geology 21A-21B) -----	1.00
Physics deposit -----	2.00
Associated Students fee -----	5.50
Associated Men Students or Associated Women Students fee---	.50

PAYABLE WHEN SERVICE IS RENDERED

Cost of filing of registration book -----	\$1.00
Key (key or combination padlock, each issue) -----	.25
College Bulletin (free to prospective students) -----	.20
Change of Program fee -----	.50
Evaluation of record for advanced standing -----	2.00
Duplicate of Library Card -----	.10
Duplicate of registration book -----	.10
Transcript of record (first copy free) -----	.50
Special Examination, each examination -----	.50
Special Examination, each standard test -----	.50

State Teaching Credentials:

Elementary	
Elementary and Junior High	
Special Secondary	
School Administration	
Each credential -----	3.00

PAYABLE DURING SEVENTH WEEK OF EACH SEMESTER

Rel, Men -----	1.50
Rel, Women -----	1.00

Additional laboratory fees and charges for certain courses ranging from cents to \$7.50 per course are payable during the seventh week of each semester. Consult the time schedule for a list of these fees. A penalty of \$1.00 is charged for failure to pay at the required time.

Applicants pay same fees as students enrolled for credit.
 Page 18 for definition of residence for fee-paying purposes.
 Paid by every student registered.
 Paid by all students enrolled for more than 5 units.
 Paid by all students entering with advanced standing.
 A 50-cent fee must accompany each application for a transcript of record. Ten cents will be charged for each duplicate of this record which accompanies the original.
 A credential fee is collected through the college by post office money order made payable to the State Department of Education. This fee will be \$5.00 for students who have not resided in California one year previous to the date of their application.

Loans and Scholarships

Scholarships for both men and women have been made available through the efforts of alumni, and civic organizations. Superiority in scholarship and worthiness from the point of view of need are the standards which selection is based. Scholarship aid is therefore restricted for most part to students who have completed the lower division of college.

Both long and short term loans are available to students who have been in attendance for at least one year and who have given evidence of ability to do satisfactory college work. Application for loans is made to the Committee on Loans and Scholarships through the offices of the Dean of Men and Dean of Women.

ADMISSION AND REGISTRATION

General Admission Requirements

High school graduates and other applicants possessing equivalent preparation may be admitted to this college upon evidence of fitness to profit by college instruction, such fitness to be shown by previous scholastic records, evidence of good moral character and personal qualifications, and by satisfactory scores on tests which the college may require.

Admission of High School Graduates Candidates for admission may demonstrate their qualifications by satisfying two requirements: 1) All applicants must demonstrate readiness for college instruction by making satisfactory scores on such tests as the college may designate, and 2) they must present satisfactory evidence of previous scholarship.

Applicants will be granted *regular* status if they have earned recommended grades* in not less than 16 courses of one semester's duration in English, Science, Foreign Language, Mathematics, Natural Science, and other fields, during the tenth, eleventh, and twelfth years in high school. Two-year students may enroll in either a degree curriculum or in one of the two-year curricula.

Applicants will be provisionally granted *regular* status if they have earned recommended grades* in not less than 12 courses of one semester's duration in English, Social Science, Foreign Language, Mathematics, Natural Science, and related fields, during the tenth, eleventh, and twelfth years in high school. If at the end of one semester they have maintained a scholarship average of C or better in not less than 12 units of work, they may retain their *regular* status. Failing to do this, they will be reclassified as two-year students, and required to enroll in a two-year curriculum.

Applicants who do not qualify for *regular* status must enroll in one of the two-year curricula.** They must have earned recommended grades* in at least 12 courses of one semester's duration, completed during the tenth, eleventh, and twelfth years in high school.

Admission by Examination Certificates of successful examination before the College Entrance Examination Board will be accepted when candidates cannot meet the above scholarship requirements.

Admission with Advanced Standing Credit earned in recognized institutions of collegiate grade will be evaluated and advanced standing granted on the basis of the evidence submitted. Credit toward the fulfillment of graduation requirements will be allowed only in so far as the applicant has met the standards and requirements of this institution.

Applicants for advanced standing must show an average grade of C or better in all college work previously undertaken. No applicant may dis-

continue on a basis of A or B or the equivalent.

For further particulars see Junior College Bulletin for 1939-40.

regard his collegiate record and apply for admission with fresh standing.

Not more than sixty-four semester hours of junior college work may be allowed for credit.

Students who seek to gain admission with advanced standing must file complete transcripts of record for all work attempted beyond the college grade. A two dollar evaluation fee must accompany the application for admission.

Admission of Special Students Applicants over twenty-one years of age, who are not high school graduates and who do not possess equivalent preparation but who receive a satisfactory score on a state college aptitude test, may be granted provisional admission as special students. Such persons may be granted full matriculation only upon the removal of all deficiencies and upon the completion of one semester of satisfactory college work in the chosen curriculum.

Registration

Registration for the fall semester of 1939-40 will take place on September 11, and for the spring semester on January 29. Candidates for admission may obtain an application blank from the Registrar. The application must be filed, with complete transcripts of record, two weeks before registration. *See calendar on page 7.*

The college year is divided into fall and spring semesters of eighteen weeks each, followed by a summer session consisting of terms of six and eight weeks, respectively. Students may enter at the beginning of the fall semester or at the beginning of either of the summer terms.

The summer session meets the needs of regular students who wish to gain credit toward the bachelor's degree, of teachers in service, and of students who wish to secure supplemental credit or to shorten the time for completion of their college course.

Tests Required at Registration Time and Later

1. A physical examination is required of all students upon entering college. Appointments for this examination are made during registration.
2. All entering students are required to take the College Aptitude Test. Exceptions may be made for students who register for five units or less, for former graduates of this college, and for graduates of approved four-year colleges.
3. All entering students who are not transferring with advanced standing must take a High School Achievement Examination, a Reading Test, and a standard English Examination.
4. The Subject A Test (English Composition) is required of all entering students. English 1A must be taken by all students whose tests indicate that they are not qualified for English 1B, even though they may intend to enroll in English 1B. No student may enroll for his first semester of attendance unless he has qualified for English 1B. Students enrolled in English 1A. Exceptions may be made for students transferring credit in English from other colleges.

Passing the Fundamentals Test in reading, spelling, arithmetic and handwriting, and a Speech Test are prerequisites for admission to upper division courses in teacher training curricula. Students should take these tests at the beginning of their sophomore year in order that they may have sufficient time to make up deficiencies, if any exist, before applying for admission to the upper division of teacher training curricula. Exceptions may be made for former graduates of this or other California State teacher training institutions who have been teachers in service.

Late Registration

A student who registers after the first week of the semester is subject to a modification of his program. A fee of one dollar must be paid for registration after the regular registration period. The instructor's approval must be secured for each course entered after the first week of the semester.

Changes in Registration

Applications for changes in program may be secured at the Registrar's office. A statement regarding withdrawals from class is to be found on page 20.

Creditors

Creditors register in the usual way and pay the same fees as those who register for credit.

GENERAL REGULATIONS

Officers for Consultation

Concerning the housing and living arrangements of students, personal problems, etc.—The Dean of Women; The Dean of Men.

Concerning the scheduling and arrangement for all student social affairs—The Dean of Women.

Concerning study lists and personal problems of *two-year* (Junior College) students—Dean of Junior College Guidance.

Concerning admission, program of studies, credits, degree requirements, etc.—The Registrar; The Dean of Liberal Arts; The Dean of Education.

Concerning health and physical condition—The Health Department.

Concerning student-body affairs, student-body policy—The executive officers of the student body, The Dean of Liberal Arts.

Concerning appointments to teaching positions and other types of employment and part-time employment—The Placement Secretary.

Concerning admission to Upper Division Teacher Training Curriculum, practice teaching, credential requirements, etc.—The Dean of Education.

Concerning use of the buildings—The Dean of Women; The Dean of Men.

Concerning entrance requirements and offerings at other institutions—The Registrar; The Dean of Liberal Arts; The Dean of Education.

Residence

The law designates the residence of the father during his life, and at his death, the residence of the mother as the residence of a minor student. In case of legal separation or divorce, the minor's residence is the residence of the parent with whom he makes his home. When the student reaches twenty-one years of age he may declare his own residence.

Barring legal separation or divorce, the residence of the husband is the residence of the wife.

Classification

Full time students are those students who have complied with requirements for admission and are registered in more than 5 units of work. Full-time students are expected to carry 12 units of work unless excused.

Limited students are partial course students who, for adequate reason, have been permitted to register for 5 units of work or fewer.

Special students are mature students who have not satisfied all entrance requirements but who are registered for such courses as their ability and preparation qualify them to pursue. Special students may also be limited students. For convenience in administration, students who have completed 0 to 29 units of work are classified as freshmen; those who have completed 30 to 59 units, as sophomores; those who have completed 60 to 89 units, as juniors; and those who have completed 90 or more units, as seniors.

Regular students are those who are qualified to enroll in curricula leading to the Bachelor of Arts degree.

Two-year students are those who are enrolled in one of the two-year Junior College curricula by choice or because they have failed to meet the scholarship standards required for *regular* status.

Scholarship, Grades, and Grade Points

The following grades are used in reporting the standing of students at the end of each semester: A, excellent; B, good; C, fair; D, passed; E, conditioned; F, failed; I, incomplete, and W, withdrawn.

The grade E is used to record work which is of low order but which may be made passable. If by the close of the next semester the work has been satisfactorily completed the grade E is changed to a D; otherwise it is changed automatically to an F. The grade I is used to record work of higher order but which is incomplete for some acceptable reason.

Ordinarily, to change an I to another grade, the work must be completed within a year.

Grade points are assigned as follows: Grade A, 3 points per unit; B, 2 points per unit; C, 1 point per unit; D, no points; E, minus 1 point per unit; F, minus 1 point per unit. The number of grade points a student has earned in a subject is determined by multiplying the number of points he has received by the number of units allowed.

The grade point average is determined by taking the algebraic sum of the grade points earned and dividing by the number of units attempted. Subjects in which the student receives an I or a W grade are disregarded in computing grade point averages.

A student must earn at least a C average in all work undertaken at the college to qualify for a certificate in any curriculum, a diploma of graduation, or a transcript of record with recommendation to another collegiate institution.

Units of Work and Study-Lists Limits

One unit of credit represents approximately three hours of actual work per week throughout one semester. It represents one hour of lecture or recitation combined with two hours of preparation, or in the case of laboratory credit, three hours of laboratory or field work.

Seventeen units in addition to physical education ($16\frac{1}{2}$ units) constitute a normal semester's program for all students. Entering students are not permitted to enroll for more than 17 units,* and all other students are limited to 18 units.*

*In addition to physical education.

Even though a student has carried a heavier program, he may not ordinarily apply more than 16 units* toward graduation. Certain exceptions to this rule exist where the student has successfully carried at least 2 units during the preceding semester: 1) 17 units* will be credited toward graduation if the student has maintained an average of not less than 5 grade points during that semester, and 2) 18 units* will be credited if a grade point average of at least 2.0 has been maintained. Any course in which a student received a passing grade may be used in the satisfaction of course requirements, even though the credit for such a course is in excess of the units credited for graduation.

Credit for a program that does not conform to the above regulations may be obtained only through a petition addressed to the Scholarship Committee. No student will be permitted to register for less than 12 units without the approval of the Dean of Liberal Arts or the Dean of Education.

Probation and Disqualification

Probation Any student whose scholarship record shows a cumulative deficit of 12 or more grade points for all work undertaken in the college will be placed on probation. A limited student will be placed on probation if his cumulative deficit equals or exceeds the average number of units carried per semester. Probationary status may be continued provided that the student does not add further toward his grade point deficiency.

Disqualification Any probational student whose scholarship falls below an average grade of C in any single semester is disqualified for further attendance at the college. A scholarship record below a D average in any single semester also disqualifies a student.

A disqualified student may be reinstated after an interval of one semester for reasons satisfactory to the Executive Committee. All applications for reinstatement must be in writing.

Withdrawals from Class

A student may obtain forms for withdrawal from class at the Registrar's Office. If a student withdraws from class for acceptable reasons during the first twelve weeks of a semester, a grade of W will be recorded upon his permanent record for those classes which he has dropped. If he withdraws during the last half of that twelve weeks period, a grade representing the level of work maintained up to the time of withdrawal will be recorded upon a supplementary record. If he withdraws from class during the last six weeks of the semester either a D or an F will be recorded upon his permanent record.

Students who withdraw from all classes during the course of a semester must petition the Executive Committee at such time as they seek readmission to the college.

Transcripts of Record

Students may secure one transcript of record without fee. Thereafter, requests for a transcript should be accompanied by a transcript fee of fifty cents. Once a student has matriculated in this institution, transcripts of record from other schools will not be returned or copies of them made.

* In addition to physical education.

Eligibility for Practice Teaching

A student shall be eligible for practice teaching (Education 116) who has not completed 75 units, been admitted to Teacher Training, and whose entire record, and also his record for the preceding semester, is not average at least a C grade.

The Honors Group

Students who at the end of the Sophomore year have attained a grade-point average of 2.5, and such others as have attained a high average in the department in which their Major is selected, and who have received the recommendation of that department and the consent of the Committee on Honors, may if they so elect, constitute an honors group, for special treatment in their Major subject.

Such students, so far as the facilities of the department and the best interests of the students under its charge allow, shall be treated as befits their individual needs and as their individual capacities warrant. They shall be eligible to enroll in honors or special study courses, although credit in such courses shall be limited to 5 units a semester. In the regularly established courses of their departments, they shall not be held to regular attendance, if, in the opinion of the instructor, the course requirements can be met through special assignments and examinations or by satisfactory performance in the regular examinations in the course. With the consent of the major department, requirements concerning minors and specific courses or sequences in the major may be set aside. Each honor student shall be assigned to a member of his Major department for advice and direction.

Students in the honors group who fail to take advantage of the opportunities there offered may at the end of any semester be transferred by the department to the general course. Students in the general course who show unusual capacity, upon recommendation of the department and the Committee on Honors, may at the end of any semester, be transferred to the honors group if such transfer appears practicable.

Students who wish to apply for entrance in the Honors Group may do so by filling out cards to be obtained from their major departments. The applications should be filed with the chairman of the major department not later than a week after registration opens. Units earned by students doing individual study under this plan will be recorded under the symbol 166 and will be subject to the formulated rules dealing with variations of student load.

The Degree with Honors

Honors at graduation shall be granted to those students only who have completed the major with distinction, and who have a general record satisfactory to the Committee on Honors.

Before Commencement each department shall determine, by such means as it may deem best (for example, by means of a comprehensive examination) which students it will recommend for honors at graduation, and report its recommendations to the Committee on Honors.

The Committee on Honors will consider departmental recommendation, confer with the several departments about doubtful cases, and transmit to the faculty its recommendations concerning the award of Honors.

Examinations

No final examinations shall be given to individual students before regular time. Any student who finds it impossible to take a final examination on the date scheduled must make arrangements with the instructor to have an incomplete grade reported and must take the deferred final examination not later than the end of the second semester following that in which the incomplete was given. No exceptions shall be made to this rule without the approval of a dean and the instructor concerned.

All final examinations shall be written in Official Examination Books or other forms which shall be furnished by the college and distributed by the instructor at the beginning of the examination period. No books or papers of any kind shall be brought into the examination room, except by special order of the instructor.

Students shall pay a special examination fee of fifty cents at the business office for every special examination given. The instructor shall give such examination only when the student presents a receipt showing that the fee has been paid.

Extension and Correspondence Courses

An extension program, covering a wide range of offerings, is made available each semester through faculty cooperation. Further particulars may be secured by addressing the Chairman of the Extension Committee. Extension courses are offered by correspondence.

The amount of credit for extension and correspondence courses accepted in fulfillment of the requirements for the Bachelor of Arts degree depends upon the nature of the courses, the quality of the work done, the student's preparation for work in the field of the course. The college reserves the right to limit credit to such courses as have been approved and the total of such acceptable credit to twelve units.

THE BACHELOR OF ARTS DEGREE

General Requirements for the Bachelor of Arts Degree

Diego State College offers the following types of curricula leading to A.B. Degree: (1) the curricula leading to the California teaching credentials, and (2) the Liberal Arts curricula. With slight variations in definition, many of the basic requirements are the same.

A minimum of 124 units of college work, representing a four-year course, is required for the Bachelor of Arts degree. Not less than 54 of these units must be completed in the junior and senior years. At least 30 units must be earned in this college, and not less than 24 of these residence units must be taken with the rank of senior. At least 12 units must be taken in the fall or spring semester of the final year before graduation; in lieu of this at least 16 units must be completed in not less than two consecutive summer sessions.

LOWER DIVISION

Subject Matter Requirements in the Lower Division

Physical Education -----	2 units
Health Education 1 or 2 -----	2 units
English -----	6 units
Psychology -----	3 units
Foreign Language -----	15 units
Mathematics A and B or high school algebra and geometry -----	0-4 units
Natural Sciences -----	14 units
Natural Sciences -----	14 units
Year-course in foreign language or in mathematics, or in philosophy (This year-course is an additional requirement to those listed above) -----	6 units
Lower division subjects for the minors, unless included in one of the above requirements. See pages 25 or 28 -----	12 units
Lower division subjects required for the major. See pages 26 or 27.	
Total gives to make total of 64 units.	

Explanation of Lower Division Requirements

English This requirement may be satisfied either in the freshman year or the sophomore year. Courses are to be chosen from the following: English 1A, 1B, 1C, 2, 3, 52A, 52B, 56A, 56B.

Psychology Psychology 1A.

Foreign Languages At least 15 units in not more than two languages required in the lower division, except that only 10 units in a modern language are required in the commerce major and no language is required

in the teacher training curricula.

in teacher training. Each year of acceptable high school work in a foreign language will be counted in satisfaction of 5 units of this requirement. A minimum of two high school year-courses is acceptable in a language except Latin, in which a year-course is permissible.

Social Sciences¹ Fourteen units chosen from two or more departments are required in this field. All students must present credit for Social Science 1 or for an acceptable equivalent.

- (a) Additional lower division courses to meet the social science requirement must be chosen from the following list and all except teacher training students must include one of the year courses marked with an asterisk: Anthropology 50A-50B*, 54, 55; Economics 1A-1B*, 18A-18B; Geography 2, 12; History 4A-4B*, 8A-8B*; Political Science 1A-1B*, 71A-71B*; Social Economics 50, 55.
- (b) Two semesters of fourth year high school courses in the field of history, political science, sociology, and economics taken at grades not lower than C may be used to satisfy three units of the social science requirement. A maximum of two units of the social science requirement may be chosen from upper division courses. High school senior courses have been used to satisfy the requirement, otherwise a maximum of five units may be counted.

Natural Sciences¹ Fourteen units chosen from each of the following groupings are required:

- (a) Biology 1 or a year course in high school or college biology, botany, physiology or zoology.
- (b) Physical Science 1 or a year course in high school or college chemistry or physics.
- (c) Additional lower division courses to meet the natural science requirement must come from the following list and must include one of the laboratory courses marked with an asterisk. *High School courses:* a maximum of two years (6 units) of third and fourth year courses in botany, chemistry,* physics,* physiology, zoology and advanced biology may be used to satisfy the natural science requirement. *College courses:* Astronomy 1, 9, 11; Biology 1, 10A-10B,* Botany 2A,* 2B,* 4; Chemistry 1A,* 1B,* 7; Geography 1 or 3 (only one course may be counted toward requirement); Geology 1A, 1B,* 2A, 2B; Physical Science 1; Physics 2A-2B, 3A-3B,* 1A-1B,* 1C-1D,* Zoology 1A,* 1B.*

Two units of this requirement may be chosen from upper division courses.

Mathematics High school elementary algebra (or Mathematics A) and high school plane geometry (or Mathematics B).

Additional Year Course In addition to the foregoing minimum requirements in foreign language and mathematics, 6 units must be chosen from one of the following groups by all except teacher training students.

Modern foreign language: Any two consecutive college courses, or two consecutive high school year courses.

Latin: Two years of high school courses in Latin.

¹ Teacher training students should follow carefully the curricular outline to meet specific course requirements in this field.

Mathematics: D, or equivalent, and either 1, 3A, or 8. Students with the Commerce major may take Mathematics D, or equivalent, and Economics 2.

Philosophy: 5A-5B.

Upper Division Preparation for the Minor See description of requirements for liberal arts minors below and for teaching minors on page 28.

Upper Division Preparation for the Major See description of requirements for teaching majors on page 27. Specific requirements for the minors in the liberal arts curricula are listed in connection with the descriptive list of courses in each major field (see pages 62 to 123).

Specific Upper Division Requirements for the Liberal Arts Curricula

Liberal arts curricula lead to the bachelor of arts degree with majors in art, chemistry, commerce, economics, English, geography, history, mathematics, music, physical science, physics, Romance languages, social science and zoology and qualify for graduate work in these fields in recognized American colleges and universities. Completion of the requirements of these curricula also enables the graduate to satisfy undergraduate requirements for the general secondary credential which, with graduate work, will enable the holder to teach in a senior high school or junior college.

A junior certificate will be granted on the completion of 64 units and satisfaction of all lower division requirements.

UPPER DIVISION

Subject Matter Requirements

Physical Science 101 -----	2 units
Minor (minimum in upper division courses) -----	6 units
and minor (minimum in upper division courses) -----	6 units
or (upper division courses) -----	24 units

At least 40 units in upper division courses must be completed, 30 of which must be earned after all lower division requirements have been satisfied.

Explanation of Requirements

Physical Science 101 Political Science 113 or 175A-175B or History 171B or 173A-173B will be accepted as substitutes for this requirement.

Minors must be established in at least two of the following fields: anthropology, art, botany, chemistry, economics, education, English, foreign language, geography, geology, history, mathematics, music, philosophy, political science, psychology, and zoology.

A minor consists of at least twelve units of work completed in one of the fields of study. It is required that at least six of these units be earned in upper division courses. The entire requirement for a minor may be met with upper division courses provided these courses have no lower division prerequisites. Prerequisites for each course are listed among the course descriptions on pages 62 to 123.

Minor in Education A student who desires to satisfy the undergraduate requirements for the general secondary teaching credential will minor in education. He should include in his program a major in a subject field of subjects usually taught in high school and a minor in the field of education. In order to conform to the usual university requirements this minor should include Education 102A-102B; 115A-115B or Education 107, 121, 130, and Psychology 102.

Majors The specific requirements for each major are listed at the beginning of each departmental division among the description of courses. (See pages 62 to 123.) The student is advised to choose his major early in his college course as practicable so that he may be able to plan his work according to the major requirements. Failure to meet the lower division requirements of the major department before the junior year may make it impossible to satisfy the upper division requirements within the normal period of two years.

Limited Electives

A total of not more than 12 units of limited and vocational courses listed below will be counted toward junior standing or the A.B. degree. Liberal Arts: Art 7, 14A; Accounting 15A, 15B, 16A, 16B, 65A, 65B; Business Economics 1A, 1B; Economics 129, 163; Education, all courses except those listed as available for credit toward a minor (see Education minor above; Engineering 22; English 1A; Journalism 53A, 53B, 115A, 153B; Library Science 10; Merchandising, all courses; Music 1A, 113A, 3A, 6A, 7A, 16A-B-C-D, 17A-B-C-D, 18A-B-C-D, 28A-28B, 116A-B-C-D, 117A-B-C-D, 118A-B-C-D; Physical Education, all courses except 1A, 111C, 1D, 30, 51, 161, 164A, 164B, 170; Secretarial training, all courses.

All courses which are offered specifically to students taking two-year completion courses leading to the Associate of Arts degree. See definition of *Two-year* students, page 19.

Professional and Preprofessional Courses. See pages 49 to 61.

Specific Upper Division Requirements for the Teacher Training Curricula

Admission to the Teacher Training Curricula Students who have been in regular attendance at the college should make application for admission to the teacher training curricula during the final semester of their sophomore year. Students who have completed three or more semesters of work in another college, upon transferring to San Diego State College, should make application as soon as they can meet the preliminary requirements.

The preliminary requirements which must be met before making application are:

1. A satisfactory score in a college aptitude test taken at the college. (See college calendar for date of test.)
2. Evidence of satisfactory ability in arithmetic, handwriting, reading and spelling indicated by having passed the fundamentals test. (See college calendar for date of test.)

assurance of correct speech habits and voice control by having satisfactorily completed a course in corrective speech or by having passed a speech test given by the college.

assurance of physical fitness by having passed a prescribed examination given by one of the college physicians.

the student is to be a candidate for one of the special secondary credentials, he must furnish a recommendation from the chairman of that department stating that the student has ability and shows promise of teaching success in his field and that the department looks with favor upon his application.

the completion of the first two years of a given curriculum, or its equivalent, with a scholarship grade of C or better.

the student has submitted evidence of having met the preliminary requirements in his application for admission to the teacher training curricula he will be interviewed by the members of a committee appointed by the faculty for this purpose. In the appraisal of applicants the committee gives careful consideration to the following factors established by the State Board of Education: intelligence, scholarship, professional attitude, personality and character, speech and language usage, and personal interests.

Advanced Standing in Teacher Training A maximum of 18 units in courses in education will be credited toward degree requirements in case work was taken more than five years before entering upon the degree curriculum at this college (date of first work taken after an evaluation record has been made, for students entering with advanced standing).

at an interval of five years, evaluations are subject to revision in the event of such new requirements as may have been put into effect and with respect to deduction in credit in education courses.

students formerly in attendance will not be considered to be working in the degree curriculum until an evaluation and statement of credit has been secured from the registrar's office. All courses taken either at this college or elsewhere must be approved by an official adviser or the Registrar (for those taken elsewhere) in order to be credited toward meeting the requirements.

Teaching Major Defined A teaching major consists of a minimum of twenty-four units in a field other than education, at least twelve of which must be in the upper division. A C average in scholarship is required in the upper division courses in the field of the teaching major. A major in the special secondary school credential varies from twenty-four to twenty-eight units as specified in the requirements for the various curricula. Teaching majors may be established in the following fields: English, foreign languages, general science, mathematics and social sciences (biology, geology, sociology, anthropology, economics, geography, history, political science) and in the special secondary school credential fields of art, business education, health and physical education.

Teaching Major in English Candidates for the teaching major in the field of English are expected to show credit in English 1B and 1C and at least six elective units of lower division work; English 117 and 130A or 130B and at least six elective units in upper division work.

Teaching Major in General Science Candidates for a teaching major in the field of general science are required to include in their programs a

college year course in a biological science, a year course in high school or college physics and a concentration of twelve units, at least six of which are upper division, in one major subject (botany, chemistry, physiology). See definition of teaching majors.

Teaching Major in Social Science Candidates for a teaching major in the field of the social sciences are required to include in their program a year course in modern history and a concentration of twelve units, at least six of which are upper division, in one major subject (economics, geography, history, political science). See definition of teaching major. The following courses may not be applied to the teaching major in the field of the social sciences: Economics 14A-14B, 18A-18B, 140, 160A-160B, 161, 162, 163, 164, 165; and all courses in merchandising.

Teaching Minor Defined A teaching minor consists of twelve units in a given field, at least six of which must be in upper division courses. Teaching minors may be established in the following fields: art, business education, English, foreign language, general science, mathematics, natural social sciences (anthropology, economics, geography, history, political science) and physical education.

Candidates for the teaching minor in English must show credit for English 101 and three elective units of lower division work; English 130A or 130B and three elective units of upper division work.

Candidates for the teaching minor in music are required to take music aptitude tests at the time the minor is chosen and to enroll in at least one music activity each semester. In special cases this requirement may be waived by petition to the Music Department. Applicants for music minors must maintain a grade average of C in all music courses. Music 1A and 7A, required for the elementary credential, the following twelve units are added for the music minor. In the lower division, the proper regard for course sequences, six units may be chosen from the following courses: Music 1B-1C-ID; 2A; 3A; 4A-4B; 6A, 8A-8B, 17; 18; Aesthetics 1A-1B. In the upper division, not less than six units may be chosen from the following courses: Music 103A-103B; 106A, 117; 118; 121A; Aesthetics 102A-102B.

Candidates for a teaching minor in physical education for women must show credit for Physical Education 1A, 1B, or 1C, 9A, and 53, one unit of sophomore activities, and Health Education 2 in the lower division; six units elected from Physical Education 102, 157A, 157B, 158, 160, 164, or 170 in the upper division.

Candidates for a teaching minor in physical education for men must show credit for Physical Education 1A, 1B, 1C, 1D, 53, and 62A in the lower division; six units elected from Physical Education 156A, 156B, 161, or 170 in the upper division.

Major and Minor Credential Requirements

1. For the junior high school credential a teaching major and a teaching minor in subjects taught in a junior high school are required. The combination of a special secondary school credential with the junior high school credential requires the completion of another teaching major than that required for a special secondary school credential.
2. For the elementary school credential two teaching minors are required.
3. For a special secondary school credential, the completion of the major in the special subject field (see detailed outlines of curricular patterns for credentials) and a teaching minor are required.

The State Board of Education has placed a limitation of a maximum of forty units of credit in one subject matter field that may be applied toward the minimum of one hundred and twenty-four units required for the A.B. degree.

Preparation for Graduate Work Students who take the A.B. degree only a special credential and who contemplate doing graduate work toward a master's degree in an academic field at another institution of higher learning, will find it advantageous to use their electives to lay a foundation for that work. A student who plans to do graduate work in the field of his major is advised to so arrange his electives as to complete the equivalent of the liberal arts major to avoid the necessity of making up undergraduate deficiency.

Political Science The course in Political Science 101 or its equivalent is required of all graduates of the college or those securing a teaching credential through the college. The following courses are accepted as equivalents: Political Science 113, 152 or 175A-175B; History 171A or 173A-173B.

Upper Division Course Requirements At least 40 units in upper division courses must be completed, 30 of which must be earned after all lower division requirements have been satisfied.

Teacher Training Curricula and Teaching Credentials All Teacher Training Curricula leading to the Degree require a minimum of 18 semester units in education in addition to the general degree requirements previously listed.

The college offers curricula leading to the A.B. degree with the following teaching credentials:

Elementary School Credential authorizing the holder to teach any or all subjects in all grades of any elementary school in California.

Junior High School Credential authorizing the holder to teach any or all subjects in the seventh, eighth, and ninth grades of any elementary or secondary school in California. This credential will be issued only in combination with the elementary school credential, one of the special secondary credentials, or in combination with additional course requirements in the teaching major and in education as a preparation for graduate work for the general secondary credential. Candidates for the latter type of combination should consult the Dean of Education regarding requirements.

Special Secondary Credential in Art authorizing the holder to teach art subjects in any grade of the public schools of California.

Special Secondary Credential in Business Education authorizing the holder to teach commercial subjects in any grade of the public schools of California.

Special Secondary Credential in Music authorizing the holder to teach music in any grade of the public schools of California.

Special Secondary Credential in Physical Education authorizing the holder to teach physical education in any grade of the public schools of California.

The college offers the following credentials to persons meeting the qualifications designated for each:

Diploma of Graduation: A diploma of graduation carrying with it any of the credentials the college is authorized to grant, or any

combination of them, may be granted to the holder of a bachelor's degree from an accredited college, upon the completion of a minimum of twenty-four units. Ordinarily at least one semester residence during the academic year is required subsequent to starting the degree; the remainder of the work may be in summer session or, in the case of students who had attended the college prior to attaining a degree elsewhere, in credit earned as an upper division student. The candidate for a diploma must meet the equivalent of all of the requirements listed in the curriculum for the degree with the credential or credentials sought.

2. *Administration and Supervision Credentials:* Candidates desiring to qualify for administration and supervision credentials will meet the credential requirements as outlined in State Department of Education Bulletin No. 12, *Regulations Governing Granting of Credentials and Certificates for Public School Service in California*. Further information will be furnished by the college upon request by the applicant.
3. *Special Secondary Credentials in Speech Arts and Speech Education:* These credentials may be secured from the Commission on Credentials upon the recommendation of the candidate by the college. Courses prescribed by the State Board of Education are offered at the college. Candidates are advised to consult with the Dean of Education before entering upon their preparation for these credentials.

Combination of Credentials In the case of students seeking more than one teaching credential, the curriculum for each credential must be completed in full, with only such exceptions as are indicated in the requirements. For each credential in addition to one, at least twelve additional units of credit must be earned, this work to be in electives in nonprofessional fields only, after the basic curriculum requirements have been satisfied. If the requirements for the general elementary credential and a general junior high school credential are completed at the same time, an exception is made to this rule.

A combination of the elementary school credential with the junior high school credential may be secured by completing the requirements for the elementary school credential and the following additional requirements: (a) a teaching major; (b) a methods course in the field of the teaching major; (c) a minimum of three units of practice teaching in a junior high school or the equivalent; (d) a course in Education 1151, *Principles and Functions of Education*.

Limited Electives Credit for limited and vocational courses will be allowed in fulfillment of the requirements for the A.B. degree when they are required in any credential pattern completed by the student. A maximum of six units of credit in the following courses may be allowed to fulfill the requirements of any other credential pattern only after the student has received permission from the Dean of Education: Art 11, 12; Business Economics 1A, 1B; Economics 129, 163; Engineering 22, 23; English 1A; Journalism 53A, 53B, 153A, 153B; Library Science 10, 11; Merchandising, all courses; Music 1A, 2A, 3A, 6A, 7A, 16A-B-C-D, 17A, 18A-B-C-D, 28A-28B, 117A-B-C-D, 118A-B-C-D; Physical Education, all activity courses beyond the requirements specified in curriculum; Secretarial Training, all courses.

All courses which are offered specifically to students taking two-year completion courses leading to the Associate of Arts degree.

Curricula Leading to Teaching Credentials

candidates in teacher training curricula should observe carefully the requirements for admission to teacher training and be prepared to meet them at the end of the sophomore year. Transfer students should meet the requirements as soon as possible after enrolling in the college. See page calendar for dates when the fundamentals test will be given and page 26 in this bulletin for requirements for admission to teacher training.

A.B. Degree With Elementary School Credential

First Semester—	FRESHMAN YEAR	Units
Biology 10A, Structure	-----	2
Biology 10A, ¹ Science of Life	-----	3
English 1A, ² or 1B ² or 1C, Freshman English	-----	3
Geography 1, Elements (Natural Science)	-----	3
Physical Education, Freshman Activities	-----	$\frac{1}{2}$
Physical Education 1 or 2	-----	2
Electives ^{3, 4}	-----	2
Second Semester—		
Biology 10B, ¹ Science of Life	-----	3
English 1B, 2, 3, 52A, 52B, 56A, 56B	-----	3
Geography 2, Regions (Social Science)	-----	3
Music 1A, Music Reading and Ear-training	-----	2
Physical Education, Freshman Activities	-----	$\frac{1}{2}$
Electives ^{3, 4}	-----	5
		32
First Semester—	SOPHOMORE YEAR	
Biology 10B, Structure	-----	2
English (selected from 1B, 1C, 2, 3, 4A, 4B, 52A, 52B, 56A, 56B, unless taken in freshman year)	-----	3
Physical Education, Sophomore Activities	-----	$\frac{1}{2}$
Second Semester—		
Physical Education 53—Physical Education in the Elementary School	-----	2 $\frac{1}{2}$
Third Semester—		
English 31A, Elementary Crafts	-----	2
English 31B, Elementary Crafts	-----	2
Music 7A, Music Materials for the Elementary Schools	-----	3
Biology 1A, General	-----	3
Physical Science 1, Pol., Soc. and Econ. Problems	-----	3
Electives to meet requirements in Natural Science, Social Sciences, and minors ^{3, 4, 5}	-----	11-14
		32

Acceptable substitutions for the requirement in Biology 10A-10B:
 High school Biology (year course with laboratory work).
 Botany 2A-2B and Zoology 1A-1B—16 units.

High school Botany and Zoology 1A-1B.

High school Zoology and Botany 2A-2B.

High school Botany and high school Zoology.

Biology 1 and Physical Science 1—6 units.

Depending on result of Subject A test.

Subject Matter Requirements in the Lower Division for total requirements in English, Natural Sciences, and Social Sciences.

Minor is English, General Science or Social Sciences.

Units in minor taken in freshman year, none needed in sophomore

JUNIOR YEAR

First Semester—

Education 102A, The Psychological Foundations of Education-----
Education 147, Education Practicum--Lower Levels-----

Second Semester—

Education 102B, The Psychological Foundations of Education----
Education 148, Education Practicum--Upper Levels-----

SENIOR YEAR

First Semester—

Education 116, Practice Teaching¹: -----

Either Semester—

Education 115A, The Principles and Functions of Education ----
Electives including two minors and political science requirement
(for the year) -----

SUMMARY

Art 6A, 61A, 61B -----
Education 102A-102B, 115A, 116, 147, 148 -----
English -----
Health Education 1 or 2 -----
Music 1A -----
*Natural Sciences (incl. Biology 10A-10B and Geog. 1) -----
Physical Education 1A-B-C, 53 -----
Political Science 101 -----
Psychology 1A -----
*Social Sciences (including Social Science 1 and Geography 2) -----
Electives, including two teaching minors-----

¹ Candidates for the Elementary School Credential in combination any other type of credential are required to do not less than 6 of practice teaching in the elementary school.

* See page 24.

B. degree with Junior High School credential Note: The Junior High School credential will be issued only in combination with one of the other teaching credentials, or with the additional courses in Education and the major subject field required as preparation for graduate work and the general secondary credential. The following outline is to be used only in combination with another credential pattern or in combination with preparation for the general secondary credential.

First Semester—	Units
Biology 10A, ¹ Science of Life -----	3
English 1A, ² or 1B, ² or 1C -----	3
Geography 1, Elements (Natural Science) -----	3
Physical Education, Freshman Activities -----	$\frac{1}{2}$
Health Education 1 or 2 -----	2
Electives, ³ including major and minor ⁴ -----	4

Second Semester—	Units
Biology 10B, ¹ Science of Life -----	3
English 1B or 1C, 2, 3, 52A, 52B, 56A, 56B -----	3
Geography 2, Regions (Social Science) -----	3
Physical Education, Freshman Activities -----	$\frac{1}{2}$
Electives, ³ including major and minor ⁴ -----	7
	<hr/>
	32

SOPHOMORE YEAR

First Semester—	Units
English (selected from 2, 3, 52A, 52B, 56A, 56B, unless taken in freshman year) -----	3
Physical Education, Sophomore Activities -----	$\frac{1}{2}$
Geology 1A, General -----	3

Second Semester—	Units
Physical Education, Sophomore Activities -----	$\frac{1}{2}$

Third Semester—	Units
Natural Science 1, Pol., Soc. and Econ. Problems -----	3
Electives, ³ including major and minor ⁵ (for the year) -----	22-25
	<hr/>
	32

JUNIOR YEAR

First Semester—	Units
Education 100A, ⁶ Methods and Materials of Instruction -----	3
Education 102A, The Psychological Foundations of Education -----	3
Physical Science 101, American Institutions (or substitute) -----	2

Possible substitutions for the requirement in Biology 10A-10B:

- 1. High school Biology (year course with laboratory work).
- 2. Botany 2A-2B and Zoology 1A-1B—16 units.
- 3. High school Botany and Zoology 1A-1B.
- 4. High school Zoology and Botany 2A-2B.
- 5. High school Botany and high school Zoology.
- 6. Biology 1 and Physical Science 1—6 units.

Depending on result of Subject A test.

Subject Matter Requirements in the Lower Division for total requirements in English, Natural Sciences, and Social Sciences.

Unless minor is English, General Science or Social Science.

6 units in minor taken in freshman year, none needed in sophomore year.

Not required if student is meeting requirements for elementary credential.

Second Semester—

Education 100B, Methods and Materials of Instruction-----
Education 102B, The Psychological Foundations of Education-----
Education 116, Practice Teaching -----

Either Semester—

Health Education 151 -----
Electives, including major and minor (for the year)-----

SENIOR YEAR

First Semester—

Education 115A, The Principles and Functions of Education-----
Education 116, Practice Teaching -----

Second Semester—

Education 115B, The Principles and Functions of Education -----

Either Semester—

Electives, including major and minor¹ (for the year)-----

SUMMARY

Education 100A-100B, 102A-102B, 115A-115B, 116 -----
English -----
Health Education 1 or 2; 151 -----
* Natural Sciences (including Biology 10A-10B and Geog. 1)-----
Physical Education -----
Political Science 101 -----
Psychology 1A -----
*Social Sciences (including Social Science 1 and Geography 2)-----
Electives, including teaching major and minor -----

Combination of the Junior High School Credential with Preparation for the General Secondary School Credential Students who wish to prepare for graduate work in Education and the general secondary school credential must complete the foregoing requirements and additional university division courses in the teaching major field to equal 18-24 units.

¹ If 6 units in minor taken in junior year, none needed in senior year.

* See page 24.

Degree With Special Credential in Art This course leads to the degree and to the Special Secondary Credential in Art which enables the holder to teach art in senior high, junior high, and elementary schools.

LOWER DIVISION

	Units
Aesthetics 50, History and Appreciation of Art (unless Aesthetics 50 is taken in the upper division) -----	2
6A-6B, Structure -----	4
61A, 61B, Fine and Industrial Arts, Elementary Crafts -----	4
Education 19, Art in the Elementary School -----	2
English 1A, ¹ 1B, ¹ 1C, 2, 3, 52A, 52B, 56A, 56B -----	6
Health Education 1 or 2 -----	2
Natural Sciences -----	12-14
Physical Education, Freshman and Sophomore Activities -----	2
Psychology 1A, General -----	3
Social Sciences (including Social Science 1) -----	8-14
Electives, including additional art for major and courses for teaching minor ² -----	11-19
	<hr/>
	64

UPPER DIVISION

Education 100A ³ -100B, Methods and Materials of Instruction -----	6
Education 102A-102B, The Psychological Foundations of Education -----	6
Education 115B, The Principles and Functions of Education -----	4
Education 116, Practice Teaching (4 units in special field) -----	6
Political Science 101, American Institutions (or substitute) -----	2
Electives, including additional art and teaching minor -----	36
	<hr/>
	60

SUMMARY

Aesthetics 50 or 150 -----	2
Art major -----	40 ⁴
Education -----	22
English -----	6
Health Education 1 or 2 -----	2
Natural Sciences -----	14
Physical Education -----	2
Political Science 101, American Institutions -----	2
Psychology 1A -----	3
Social Sciences (including Social Science 1) -----	14
Electives, including teaching minor -----	17
	<hr/>
	124

¹ Depending on result of Subject A test.

² Unless minor is English, General Science, or Social Science.

³ Not required if student is meeting requirements for elementary credential also.

⁴ Maximum credit allowable in art.

See Subject Matter Requirements in the Lower Division.

See page 24.

A.B. Degree With Special Credential in Business Education This course leads to the A.B. degree and to the Special Secondary Credential in Business Education, which entitles the holder to teach business subjects in senior high and junior high schools.

In addition to the following academic requirements, satisfactory evidence of one-half year, or 1000 hours of approved experience in the field named in the credential must be submitted. For the credentials in the General Business Subfield twelve semester hours of work above the requirement for a bachelor's degree may be offered in lieu of the six months of time experience. At least six semester hours of the twelve must be in business or economics.

Accounting and Secretarial Subfields

LOWER DIVISION

Economics 1A-1B, Principles	-----
Economics 2, Mathematics of Finance	-----
Economics 14A-14B, Accounting	-----
Geography 1, Elements (Natural Science)	-----
Geography 2, Regions (Social Science)	-----
¹ Natural Sciences	-----
Physical Education, Freshman and Sophomore Activities	-----
Psychology 1A, General	-----
Secretarial Training A, Business Mathematics	-----
Secretarial Training 1A-1B, Typewriting	-----
Secretarial Training 5A-5B, Stenography	-----
Secretarial Training 10A, English in Business	-----
Social Science 1, Pol., Soc. and Econ. Problems	-----
Speech Arts 1A, Fundamentals of Public Speaking	-----

¹ See page 24. Students deficient in high school natural science will be required to make up such deficiency in college. See subject matter requirements in the Lower Division.

UPPER DIVISION

	Units
Economics 18A-18B, Commercial Law -----	6
Economics 100, Modern Economic Thought, or Economics 102, Theories of Social Control, or course in Consumer Economics or Economics 111, Economic History of the United States -----	3
Economics 121, Business Administration -----	3
Economics 140, Statistical Methods -----	3
Economics 160A-160B, Advanced Accounting -----	6
Economics 161, Cost Accounting -----	3
Economics 163, Machine Accounting -----	3
Education 100A-100B, Methods and Materials of Instruction -----	6
Education 102A-102B, The Psychological Foundations of Education -----	6
Education 115B, The Principles and Functions of Education -----	4
Education 116, Practice Teaching -----	6
Physical Methods Courses as prescribed by major department -----	4
Geography 141, Economic Geography, or a course in Foreign Trade -----	3
Physical Science 101, American Institutions (or substitute) -----	2
Secretarial Training 3A, Office Methods and Appliances -----	3
Secretarial Training 6A, Advanced Stenography -----	3
	—
	64

If the Secretarial subfield only is elected, Economics 2 and Education 2 and all upper division courses in accounting may be omitted, but 12 units in upper division courses in economics and commerce, other than those listed above, must be included.

If the accounting subfield is elected, Secretarial Training 5A-5B, 6A, and Education 163, 165 may be omitted.

General Business Subfield

LOWER DIVISION

U

Economics 1A-1B, Principles -----
Economics 2, Mathematics of Finance -----
Economics 14A-14B, Accounting -----
Economics 18A-18B, Commercial Law -----
Geography 1, Elements (Natural Science) -----
Geography 2, Regions -----
Merchandising 26, Salesmanship -----
Merchandising 27, Advertising -----
¹ Natural Sciences -----
Physical Education, Freshman and Sophomore Activities -----
Psychology 1A, General -----
Secretarial Training A, Business Mathematics -----
Secretarial Training 1A-1B, Typewriting -----
Secretarial Training 10A, English in Business -----
Social Science 1, Pol., Soc. and Econ. Problems -----
Speech Arts 1A, Fundamentals of Public Speaking -----
Electives, including Freshman English -----

UPPER DIVISION

Economics 100, Modern Economic Thought, or a course in Consumer
Economics or Economics 102, Contemporary Theories of Social
Control -----
Economics 121, Business Administration -----
Economics 135, Money and Banking -----
Economics 140, Statistical Methods -----
Economics 163, Machine Accounting -----
Education 100A-100B, Methods and Materials of Instruction -----
Education 102A-102B, The Psychological Foundations of Education -----
Education 115B, The Principles and Functions of Education -----
Education 116, Practice Teaching -----
Special Methods Courses as prescribed by major department -----
Geography 141, Economic Geography, or a course in Foreign Trade -----
Political Science 101, American Institutions (or substitute) -----
Electives (including a minimum of 5 units in the upper division,
3 units of which must be in Commerce) -----

¹ See page 24. Students deficient in high school natural science will
to make up such deficiency in college. See subject matter requirements
in the Lower Division.

Merchandising Subfield

LOWER DIVISION

	Units
conomics 1A-1B, Principles -----	6
conomics 14A-14B, Accounting -----	6
graphy 1, Elements (Natural Science) -----	3
graphy 2, Regions -----	3
tural Sciences -----	8
sical Education, Freshman and Sophomore Activities -----	2
etarial Training A, Business Mathematics -----	1
etarial Training 2A, Typewriting -----	2
etarial Training 10A, Business Correspondence -----	3
ch Arts 1A, Fundamentals of Public Speaking -----	3
chandising 24A, Principles -----	3
omics 18A-18B, Commercial Law -----	6
al Science 1, Pol., Soc. and Econ. Problems -----	3
hology 1A -----	3
tives, including Freshman English -----	12
	—
	64

UPPER DIVISION

conomics 100, 102 or 111 -----	3
conomics 121, Business Administration -----	3
conomics 140, Statistical Methods -----	3
education 100A-100B, Methods and Materials of Instruction -----	6
education 102A-102B, The Psychological Foundations of Education -----	6
education 115B, The Principles and Functions of Education -----	4
education 116, Practice Teaching -----	6
ical Methods Courses as prescribed by major department -----	4
graphy 141, Economic Geography or a course in Foreign Trade -----	3
ical Science 101, American Institutions or substitute -----	2
chandising 24B, Store Management -----	3
chandising 25, Salesmanship -----	2
chandising 26, Applied Salesmanship -----	2
chandising 27, Advertising -----	3
tive, upper division courses in Commerce -----	10
	—
	60

page 24. Students deficient in high school natural science will have make up such deficiency in college. See subject matter requirements the Lower Division.

A.B. Degree With Special Credentials in Music. Students intending to become applicants for this credential must show evidence of music ability, before entering the course. They must be able to play artistically upon the piano, music of the grade of the simpler *Son Without Words* of Mendelssohn or else possess a corresponding degree of proficiency in voice or on an orchestral instrument. No credit is given to music majors for the basic courses of Music 1A and Music 7A, 1 if a deficiency exists in the field of general musicianship, the student will be required to take either or both of these courses without credit.

All music majors are required to enroll in two musical activities each semester. In special cases this requirement may be waived by petition to the Music Department.

All students are required to pass examinations in applied music. No credit is allowed to majors in voice or orchestral instruments for any work in piano which is below the level of artistic hymn playing.

Applicants for the Special Secondary Credential in Music must maintain a grade average of "C" or better in music courses.

All students majoring in music are required to pass a comprehensive examination in this field during the senior year.

This course leads to the A.B. degree with a Special Secondary Credential in Music which will authorize the holder to teach music in the elementary, junior and senior high schools of the State.

A maximum of 40 units in Music may be used toward the A.B. degree. Of these 40 units a maximum of 3 may come from the field of music activities: band, choir, chorus, glee clubs and orchestra.

FRESHMAN YEAR

First Semester—

English 1A¹, 1B¹, or 1C _____
 Health Education 1 or 2 _____
 History 4A or 8A _____
 Aesthetics 1A _____
 Music 1B _____
 Social Science 1 _____
 Music 18 _____
 Physical Education _____

Second Semester—

English 1B, 1C, 2, 3, 52A, 52B, 56A, 56B _____
 Geography 1, Elements (Natural Science) _____
 History 4B or 8B _____
 Aesthetics 1B _____
 Music 1C _____
 Music 3A _____
 Music 18 _____
 Physical Education _____

¹ Depending on result of Subject A test.

SOPHOMORE YEAR

1st Semester—	Units
Music 4A -----	3
Music 1D -----	2
Music 18 -----	1
Natural Science -----	6
Geography 2, Regions -----	3
Music 2A -----	1
Physical Education -----	$\frac{1}{2}$
	<hr/>
	16 $\frac{1}{2}$
2nd Semester—	
Music 4B -----	3
Psychology 1A -----	3
Natural Science -----	5
Music 18 -----	1
Education 17 -----	2
Physical Education -----	$\frac{1}{2}$
	<hr/>
	14 $\frac{1}{2}$

JUNIOR YEAR

1st Semester—	
Music 6A -----	1
Music 105A -----	3
Education 145 -----	2
Music 17 or 117 -----	1
Education 102A -----	3
Education 100A -----	3
Upper Division Minor -----	3
	<hr/>
	16
2nd Semester—	
Political Science 101 -----	2
Music 105B -----	3
Music 117 -----	1
Education 100B -----	3
Education 102B -----	3
Upper Division Minor -----	3
	<hr/>
	15

SENIOR YEAR

1st Semester—	
Music 119 -----	1
Music 107A -----	2
Music 117 -----	1
Aesthetics 102A -----	2
Education 116, Practice Teaching -----	6
Music Activities -----	2
	<hr/>
	14

Subject Matter Requirement in the Lower Division.
 NOTE.—A maximum of 3 units is credited toward the special Secondary credential in Music for music activities carried on throughout the four year course. These activities: band, choir, glee clubs, chorus and orchestra are an integral part of the work of the course and each music major is expected to participate in at least two of these each semester unless excused by the Music Department.

Second Semester—

Music 121	-----	2
Music 106	-----	2
Music 120	-----	1
Music 117	-----	1
Aesthetics 102B	-----	2
Education 115B	-----	4
Education 116, Practice Teaching	-----	3
*Music Activities	-----	1

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SUMMARY

Health Education	-----	2
Aesthetics	-----	2
Education	-----	2
English	-----	1
Upper Division Minor	-----	1
Natural Science	-----	1
Music	-----	1
Social Science	-----	1
Psychology	-----	1
Physical Education	-----	1

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* NOTE.—A maximum of 3 units is credited toward the special Secondary credential in Music for music activities carried on throughout the four-year course. These activities, band, choir, glee clubs, chorus and orchestra are an integral part of the work of the course and each music major is expected to participate in at least two of these each semester unless excused by the Music Department.

3. Degree With Special Credential in Physical Education This course leads to the A.B. degree and to the Special Secondary Credential in Physical Education which entitles the holder to teach physical education in senior high, junior high, and elementary schools.

MEN

LOWER DIVISION

Units

Psychology 10A-10B, Science of Life (unless taken as a year course in high school with at least a grade of B) -----	6
or	
Psychology 1A, General -----	4
English 1A, ¹ 1B, ¹ 1C, 2, 3, 52A, 52B, 56A, 56B -----	6
Health Education 1 -----	2
Natural Sciences -----	5 or 7

Physical Education:

A-1B, 1C-1D -----	2
A, Tennis -----	$\frac{1}{2}$
10, Emergencies -----	1
3, Physical Education in the Elementary School -----	$2\frac{1}{2}$
2A, 62B, Gymnastic Activities -----	4
6, Playing Rules of Modern Games -----	1
2, Principles -----	2
Sports and Athletics ² -----	2
Psychology 1A, General -----	3
R Cross Swimming Test -----	$\frac{1}{2}$
Social Sciences, including Social Science 1, Political, Social and Economic Problems -----	14
Speech Arts 1A, Fundamentals of Public Speaking -----	3
Psychology 20, Anatomy and Physiology -----	3
Electives, including courses to meet minor requirements ³ -----	$6\frac{1}{2}$
	<hr/>
	64

UPPER DIVISION

Education 100A-100B, Methods and Materials of Instruction -----	6
Education 102A-102B, The Psychological Foundations of Education -----	6
Education 115B, The Principles and Functions of Education -----	4
Education 116, Practice Teaching -----	6
Health Education 151 -----	2
Physical Education: Choose four out of the six starred courses:	
* 4, Organ. and Admin. of Physical Education -----	2
* 5, Applied Anatomy -----	2
* 6A-156B, Sports Methods -----	4
* 1, Folk Dancing -----	2
* 6, Technique of Officiating -----	2
* 8, Physiology of Exercise -----	2
* 9, Technique of Teaching Activities -----	2
* 10, Recreational Leadership -----	2
* 10, Theory of Coaching Football -----	2
Sports and Athletics ² -----	2

Depending on result of Subject A test.

A majoring in Physical Education must actively participate in at least two sports each year.

Unless minor is English, General Science, or Social Science.

Subject Matter Requirements in the Lower Division.

MEN—Continued

UPPER DIVISION—Continued

	Uni
Political Science 101, American Institutions (or substitute) -----	2
Electives -----	16
	<hr/> 60

SUMMARY

Education -----	22
English -----	6
Health Education -----	4
Speech Arts 1A -----	3
*Natural Science (including Biology 10A-10B or substitute and Zoology 20) -----	14
Physical Education major -----	33
Political Science 101, American Institutions -----	2
Psychology -----	3
**Social Sciences (including Social Science 1) -----	14
Zoology 114A -----	2
Electives, including teaching minor -----	21
	<hr/> 124

* See page 24.

** See page 24.

WOMEN

LOWER DIVISION

	Units
Aesthetics 1A, Survey of Music -----	2
Biology 10A-10B, Science of Life (unless taken as a year course in high school with at least a grade of B) -----	6
or	
Biology 1A, General -----	4
English 1A, ¹ 1B, ¹ 1C, 2, 3, 52A, 52B, 56A, 56B -----	6
Health Education 2 -----	2
Natural Sciences -----	5-7
Physical Education:	
A, Fundamental Skills -----	$\frac{1}{2}$
B, Folk Dancing -----	$\frac{1}{2}$
C, Rhythmic Skills -----	$\frac{1}{2}$
A, Social Dancing -----	$\frac{1}{2}$
B, Archery -----	$\frac{1}{2}$
B, Golf -----	$\frac{1}{2}$
A, Stunts and Tumbling -----	$\frac{1}{2}$
OC, Life Saving -----	$\frac{1}{2}$
1B, Tennis -----	$\frac{1}{2}$
3, Physical Education in the Elementary School -----	2 $\frac{1}{2}$
Sports and Dancing -----	$\frac{1}{2}$
Psychology 1A, General -----	3
or	
Psychology 54, Social -----	3
Social Sciences, including Soc. Science 1 -----	9
Technical Arts -----	3
Psychology 20 -----	3
Electives, including teaching minor ² -----	16 $\frac{1}{2}$
	<hr/> 63

UPPER DIVISION

Education 100A-100B, Methods and Materials of Instruction -----	6
Education 102A-102B, The Psychological Foundations of Education -----	6
Education 115B, The Principles and Functions of Education -----	4
Education 116, Practice Teaching -----	6
Health Education 151 -----	2
Physical Education:	
2, Emergency and Safety Programs -----	1
3, Administration of Secondary Physical Education -----	2
5, Applied Anatomy -----	2
7A-157B, Sports Methods -----	4

depending on result of Subject A test.

Unless minor subject is English, General Science, or Social Science.

Chosen from 2A, 2B, 3A, 3B, 3C, 3D, 4B, 5A, 6A, 6B, 7A, 8A, 8B, 8C, 8D, 9, 10B, or 11A.

See Subject Matter Requirements in the Lower Division.

WOMEN—Continued

UPPER DIVISION—Continued

Physical Education—Continued

160, Principles of Teaching Gymnastics	-----
161, Folk Dancing	-----
164A-164B, Advanced Dancing	-----
168, Physiology of Exercise	-----
169, Technique of Teaching Activities	-----
170, Recreational Leadership	-----
173, Principles of Physical Education	-----
177, Individual Program Adaptations	-----
185, Techniques of Individual Sports	-----
Political Science 101, American Institutions (or substitute)	-----
Additional Courses in Upper Division for minor	-----

SUMMARY

Aesthetics	-----
Education	-----
English	-----
Health Education	-----
*Natural Sciences (including Biology 10A-10B or substitute, and Zoology 20)	-----
Physical Education major	-----
Political Science 101, American Institutions	-----
Psychology	-----
*Social Sciences (including Social Science 1 and Sociology 50 or Anthropology 54)	-----
Speech Arts	-----
Electives, including a teaching minor	-----

* See page 24.

THE BACHELOR OF EDUCATION DEGREE

General Requirements

A Bachelor of Education Degree will be granted upon the successful completion of 124 semester hours of college or university work or the equivalent. Of this total requirement at least 106 semester hours of work will be completed in regular campus classes, extension classes, or in correspondence courses under college or university direction; and not to exceed eighteen semester hours of credit may be allowed for experiences and activities that can be evaluated as equivalent to regular academic work.

Residence Requirements

Twenty-four semester hours of work completed in the State Colleges of California will be accepted as satisfying residence requirements, provided that at least twelve units of this work has been completed at the San Diego State College subsequent to June 1, 1934, and provided that not more than six units of the remaining twelve may be taken in extension classes.

Purpose of the Degree

The establishment of this degree provides an opportunity for improving the professional training of those teachers who are now in service and who do not meet the standards of training at present required of new teachers entering the teaching profession.

This degree is professional in character and is not intended to qualify graduates for graduate standing in the universities.

The following classes of teachers are eligible for candidacy for the Bachelor of Education Degree:

Graduates of the 2-year, 2½-year, or 3-year curricula of the California State colleges when these institutions were normal schools or teachers colleges, who have had five or more years of teaching experience.

Holders of California life diplomas or those who have taught five or more years in the public schools of California.

Nature of Work and Fields of Study

Candidates will take academic courses designed to strengthen them in the fields of knowledge in which their initial training is inadequate. Professional courses in education will be included to qualify candidates to teach the newer curricula by means of the newer methods. All work will as far as possible be provided in classes for mature and experienced teachers.

Each candidate for the Bachelor of Education Degree must include in the last 60 semester hours of credit earned a minimum of six semester hours in each of three of the following six fields of knowledge.

1. Professional courses
2. Social sciences
3. Natural science
4. Psychology and philosophy
5. Fine arts and literature
6. Physical education, hygiene, and recreation

Effective Dates of the Bachelor of Education Curriculum

The operation of this curriculum shall not extend beyond February 1, 1947. All applications for candidacy must be filed and at least six semester hours of work completed before February 1, 1942. All the requirements must be completed and the degree conferred prior to February 1, 1947.

Application for Candidacy

Anyone desiring to establish candidacy for this degree should secure an application blank from the Registrar's office. An evaluation of record cannot be made until the application blank has been entirely filled out and filed with complete transcripts of academic record. A two-dollar evaluation fee must accompany each application. Applications should be filed well in advance of the time of anticipated enrollment.

PROFESSIONAL AND PREPROFESSIONAL CURRICULA

Professional and preprofessional courses, ranging in length from two years to three and four years of collegiate work, are offered by this institution. The following curricular outlines meet typical requirements for admission to professional schools of law, medicine, dentistry, nursing, pharmacy, optometry, social service, public service, journalism, agriculture, and engineering. The student may modify these suggested outlines of study whenever the peculiar requirements of the professional school of his choice makes it seem advisable for him to do so.

The degree curricula in liberal arts may be modified to include the course outlines which follow. For a complete statement of the requirements for the junior certificate and the degree see pages 23 to 26.

Prelegal Curriculum

The entrance requirements of law colleges range from two years to three and four years of prelegal work. The lower division requirements of the liberal arts curricula should be met in full whether the curriculum extends over a period of two, three, or four years.

The following curriculum meets the recommendations of standard American law colleges for a broad and liberal education in those fields of human knowledge commonly involved in human affairs and those which have cultural and disciplinary values. For the majority of prelegal students a major in economics, as provided for in the following curriculum, furnishes the most effective preparation for later professional study in law and for other activities in the field of business. However, for some students a major, or at least strong minors, in English, history, or political science, may provide a suitable preparation.

Following is a recommended arrangement of courses:

FRESHMAN YEAR		Units	
Physical Education	-----	$\frac{1}{2}$	$\frac{1}{2}$
Health Education 1 or 2	-----	2	
Foreign Language (if needed to complete requirement)	-----	3-5	3-5
Natural Science	-----	3-5	3-5
Speech Arts 1A-1B or English elective	-----	3	3
Economics 14A-14B	-----	3	3
Psychology 1A	-----		3
Electives ¹	-----	0-5	0-3
		$16\frac{1}{2}$	$15\frac{1}{2}$

¹For lower division requirements, page 23.
Recommended elective: History, 6 units.

SOPHOMORE YEAR

Physical Education -----	1½
*Additional Natural Science (if needed to meet requirement) --	3
Economics 1A-1B -----	3
Philosophy 5A-5B or Mathematics 3A-3B -----	3
Political Science 1A-1B or 71A-71B -----	3
Psychology 4A -----	2
Electives ¹ -----	2
	<hr/>
	16½

JUNIOR YEAR

Economics 121 or 122 -----	3
Economics 133 -----	3
Economics 140 -----	
Economics elective -----	
History 151A-151B or 175A-175B -----	3
Political Science 111 and 113 or 143A-143B -----	3
Electives ² -----	3
	<hr/>
	15

SENIOR YEAR

Economics 100 -----	3
Economics 102 or 111 -----	
Economics 199A-199B -----	1
Economics 135 -----	3
History 111A-111B or 121A-121B -----	3
Political Science 175A-175B -----	3
Electives ² -----	3
	<hr/>
	16

* See lower division requirements, page 23.

¹ Recommended elective: History, 6 units, unless taken in the freshman year.

² Recommended electives: English, philosophy, psychology.

Optometry Curriculum

The following subjects should be completed in high school: elementary algebra, 1 (year) unit; plane geometry, 1 unit; algebraic theory, $\frac{1}{2}$ -unit; trigonometry, $\frac{1}{2}$ -unit; physics, 1 unit; chemistry, 1 unit; foreign language, 1 unit.

The following curriculum prepares for junior standing in university schools of optometry:

FRESHMAN YEAR		Units	
Physical Education	-----	$\frac{1}{2}$	$\frac{1}{2}$
Health Education 1 or 2	-----	2	
Foreign Language (if needed to complete requirements)	-----	3	3
Physics 2A-2B	-----	3	3
Physics 3A-3B	-----	1	1
Speech Arts 1A-1B	-----	3	3
Social Science	-----	3	3
Electives	-----		3
		<hr/>	<hr/>
		15 $\frac{1}{2}$	16 $\frac{1}{2}$
SOPHOMORE YEAR			
Physical Education	-----	$\frac{1}{2}$	$\frac{1}{2}$
Chemistry 1A-1B	-----	5	5
Mathematics 3A-3B	-----	3	3
Psychology 1A	-----		3
Social Science 1	-----	3	
Geology 20	-----		3
Electives	-----	4	2
		<hr/>	<hr/>
		15 $\frac{1}{2}$	16 $\frac{1}{2}$

See lower division requirements, page 23.

Premedical Curriculum

The entrance requirements of medical colleges ordinarily range from two to four years of premedical work. The lower division requirements of Liberal Arts curricula include the general requirements of standard medical colleges and should therefore be met in full whether the curriculum extends over a period of three or of four years. However, a student who has definitely decided not to become a candidate for a degree in San Jose State College may substitute the lower division requirements of an institution to which he expects to transfer in place of the following curriculum marked with an asterisk. All plans for premedical work should include an arrangement of courses to meet the requirements of the medical college to which the student expects to enter.

A student who is pursuing a four-year premedical curriculum should include in chemistry or zoology in his junior and senior years, and must meet the upper division requirements for the A.B. degree in the Liberal Arts curricula.

The following subjects should be completed in high school: elementary algebra, 1 (year) unit; plane geometry, 1 unit; chemistry, 1 unit; physics, 1 unit; French or German, 2 or 3 units. Two units of Latin are recommended.

Following is a recommended arrangement of courses:

FRESHMAN YEAR	Units	SOPHOMORE YEAR	Units
Physical Education -----	$\frac{1}{2}$ $\frac{1}{2}$	Physical Education -----	4
Health Education -----	2 --	Zoology 1A-1B -----	3
Chemistry 1A-1B -----	5 5	Chemistry 7-8 -----	3
English 1B and 2 or 3----	3 3	*Social Science Year Course -----	3
*French or German (if needed to meet requirement) ¹ -----	3-5 3-5	*Psychology 1A -----	3
*Electives -----	0-2 2-5	*Social Science 1 -----	3
		*Additional Year Course ² -----	3
	<hr/> 15 $\frac{1}{2}$ 16 $\frac{1}{2}$		<hr/> 16
JUNIOR YEAR	Units	SENIOR YEAR	Units
Political Science 101 -----	-- 2	Upper division requirements and electives for the major, the minors and the degree (see pages 25, 69 and 73)----	15
Physics 2A-2B -----	3 3		15
Physics 3A-3B -----	1 1		
Chemistry 105 -----	3		
Zoology 100 -----	-- 4		
Zoology 106 -----	4 --		
Electives -----	4 5		
	<hr/> 15 15		

* See lower division requirements, page 23.

¹ German if the major is Chemistry.

² Mathematics 1A-1B if the major is Chemistry.

Nursing Curriculum

Student who plans to complete a curriculum in nursing leading to a degree and a certificate in nursing in another collegiate institution should ascertain the lower division (junior certificate) requirements of that institution. The lower division requirements of the institution to which the student will transfer may be substituted for the following courses marked with an asterisk wherever the requirements differ.

The following subjects should be completed in high school: elementary algebra, 1 (year) unit; plane geometry, 1 unit; chemistry, 1 unit; physics, 1 unit; French or German, 2 or 3 units, 2 units of Latin are recommended.

The following is a recommended arrangement of courses:

FRESHMAN YEAR	Units		SOPHOMORE YEAR	Units	
Physical Education -----	$\frac{1}{2}$	$\frac{1}{2}$	Physical Education -----	$\frac{1}{2}$	$\frac{1}{2}$
Math Education -----	2	--	Psychology 1A-1B -----	3	3
Chemistry 1A-1B -----	5	5	Economics 1A-1B -----	3	3
Biology 20 -----	--	3	Bacteriology ¹ -----	4	--
Math 2B and 2 or 3 --	3	3	*Social Science 1 -----	3	--
French or German (if			*Additional Year Course --	3	3
needed to complete re-			Electives -----	--	5
quirement) -----	3-5	3-5			
Electives -----	1-3	0-2			
				16 $\frac{1}{2}$	14 $\frac{1}{2}$
	16 $\frac{1}{2}$	16 $\frac{1}{2}$			

Dental Curriculum

Students for a degree in dentistry should ascertain the entrance requirements of the dental college to which they expect to transfer and should ascertain whatever changes in the following typical requirements that may be desirable in satisfying the requirements of the dental college.

The following subjects should be completed in high school: elementary algebra, 1 (year) unit; plane geometry, 1 unit; trigonometry, 1 unit; chemistry, 1 unit; physics, 1 unit; foreign language, 3 or 4 units.

The following arrangement of courses is recommended:

FRESHMAN YEAR	Units		SOPHOMORE YEAR	Units	
Physical Education --	$\frac{1}{2}$	$\frac{1}{2}$	Physical Education -----	$\frac{1}{2}$	$\frac{1}{2}$
Math Education ---	2	--	Chemistry 7-8 -----	3	3
Chemistry 1A-1B ---	5	5	Physics 2A-2B -----	3	3
Biology 10-A10B or			*Social Science Year		
Biology 1A-1B ---	3-4	3-4	Course -----	3	3
Math 1B and 2 or			*Psychology 1A -----	3	--
-----	3	3	*Social Science 1 -----	--	3
Foreign language (if			*Additional Year Course	3	3
needed to complete					
requirement) ¹ ---	3	3		15 $\frac{1}{2}$	15 $\frac{1}{2}$
Electives -----	--	0-2			
	16 $\frac{1}{2}$	17 $\frac{1}{2}$		15 $\frac{1}{2}$	16 $\frac{1}{2}$

The lower division requirements for junior standing (junior certificate), see page 23.

Courses offered in the regular session; may be taken in the summer session.

Preagricultural Curricula

The following subjects should be completed in high school: elementary algebra, 1 (year) unit; plane geometry, 1 unit; algebraic theory, $\frac{1}{2}$ unit; trigonometry, $\frac{1}{2}$ unit; solid geometry, $\frac{1}{2}$ unit; chemistry, 1 unit; physics, 1 unit; mechanical drawing, 1 unit; foreign language, 2 units.

The two-year curricula require the completion of 66 units of work: junior standing in recognized colleges of agriculture.
Students should ascertain the lower division requirements of the agricultural college they expect to enter.

The following arrangement of courses is recommended:

Curricula in Plant and Animal Sciences and in Forestry

FRESHMAN YEAR			Units
Physical Education	-----		$\frac{1}{2}$
Health Education	-----		2
Chemistry 1A-1B ²	-----		5
Botany 2A-2B	-----		4
Physics 2A-2B ²	-----		3
Electives ³	-----		2
			16 $\frac{1}{2}$
SOPHOMORE YEAR			
Plant Science	Units	Animal Science	Units
Physical Education	$\frac{1}{2}$ $\frac{1}{2}$	Physical Education	$\frac{1}{2}$
Economics 1A-1B	3 3	Economics 1A-1B	3
Chemistry 7-8	3 3	Chemistry 7-8	3
Geology 1A or 2A	3 --	Geology 1A or 2A	3
Bacteriology 1 (summer session)	-- 4	Bacteriology 1 (summer session)	--
Zoology 1A	4 --	Zoology 1A-1B	4
Botany 4	-- 2	Zoology 100	--
Electives	3 4	Electives	2
<hr/>			<hr/>
16 $\frac{1}{2}$ 16 $\frac{1}{2}$			15 $\frac{1}{2}$
Forestry			
Physical Education	-----		$\frac{1}{2}$
Economics 1A-1B	-----		3
English 1B and 1C, 2 or 3, or Speech Arts 1A-1B	-----		3
Mathematics 1 and 8, or 3A-3B	-----		3
Surveying 1A-1B	-----		3
Geology 1A	-----		4
Electives	-----		--
			16 $\frac{1}{2}$

* See lower division requirements for junior standing (junior certificate page 23).
¹ Additional foreign language may be substituted for physics if necessary to satisfy lower division requirements in foreign language.
² See prerequisites, page 73 and page 115.
³ Foreign language if not taken in high school.

Engineering Curricula

Following subjects should be completed in high school: elementary algebra, 1 (year) unit; plane geometry, 1 unit; algebraic theory, $\frac{1}{2}$ unit; solid geometry, $\frac{1}{2}$ unit; trigonometry, $\frac{1}{2}$ unit; chemistry, 1 unit; physics, 1 unit; mechanical drawing, 1 unit.

Students should ascertain the requirements of the engineering college they expect to enter.

The following arrangement of courses is recommended:

Mechanical, Electrical, Civil and Mining Engineering

FRESHMAN YEAR		Units	
Physical Education	-----	$\frac{1}{2}$	$\frac{1}{2}$
Math Education 1	-----	2	
Mathematics 3A-3B	-----	3	3
Chemistry 1A-1B	-----	5	5
Physics 1A-1B	-----	3	3
Biology 1A or elective	-----	4	—
Electives	-----	—	3
		<hr/> 15 $\frac{1}{2}$	<hr/> 16 $\frac{1}{2}$

Mechanical and Electrical Engineering

SOPHOMORE YEAR			
Engineering 1A	-----	3	—
Engineering 21	-----	3	—
Engineering 22	-----	—	3
Engineering 23	-----	—	2
Mathematics 4A-4B	-----	3	3
Mathematics 118 or 119	-----	—	3
Physical Education	-----	$\frac{1}{2}$	$\frac{1}{2}$
Physics 1C-1D	-----	3	3
Electives	-----	3	2
		<hr/> 15 $\frac{1}{2}$	<hr/> 16 $\frac{1}{2}$

Civil Engineering

SOPHOMORE YEAR			
Economy 3	-----	—	2
Engineering 1A-1B	-----	3	3
Engineering 21	-----	3	—
Engineering 23	-----	—	2
Engineering 25	-----	—	3
Engineering 28	-----	3	—
Mathematics 4A-4B	-----	3	3
Physical Education	-----	$\frac{1}{2}$	$\frac{1}{2}$
Physics 1C-1D	-----	3	3
		<hr/> 15 $\frac{1}{2}$	<hr/> 16 $\frac{1}{2}$

Biology 1A is required in the civil engineering curriculum.

Curriculum in Industrial Physics

The following subjects should be completed in high school: elementary algebra, 1 (year) unit; plane geometry, 1 unit; algebraic theory, $\frac{1}{2}$ unit; solid geometry, $\frac{1}{2}$ unit; trigonometry, $\frac{1}{2}$ unit; chemistry, 1 unit; physics, 1 unit; mechanical drawing, 1 unit; French or German, 3 units.

FRESHMAN YEAR	Units		SOPHOMORE YEAR	Units
Physical Education -----	$\frac{1}{2}$	$\frac{1}{2}$	Physical Education -----	$\frac{1}{2}$
Health Education 1 -----	2	--	Mathematics 4A-4B -----	3
Mathematics 3A-3B -----	3	3	Physics 1C-1D -----	3
Chemistry 1A-1B -----	5	5	Any combination of: Engineering 1B, 21, 22 -----	3
Physics 1A-1B -----	3	3	Engineering 23 -----	--
*English -----	3	3	*Foreign Language -----	3-5 3
Electives -----	--	2	*Social Science 1 -----	3
	16 $\frac{1}{2}$	16 $\frac{1}{2}$	Electives -----	-- 0
				15-17 1

JUNIOR YEAR	Units		SENIOR YEAR	Units
Physics -----	6	6	Chemistry 110A-110B ¹ -----	3
Engineering 128 ¹ -----	3	--	Upper division requirements and electives for the major and the degree (see pages 25, 73) -----	12 1
Engineering 125 ¹ -----	--	3		15 1
*Economics 1A-1B -----	3	3		
*Psychology 1A -----	3	--		
Political Science 101 -----	2	--		
Electives -----	1	3		
	15	15		

* Lower division, requirements must be met in full. See page 15. Students who, during the first two years, chose the regular engineering curriculum will find that certain lower division requirements will have to be deferred until the junior year. All lower division requirements must be completed before senior standing is granted.

¹ Engineering and chemistry should be used to satisfy requirements of the minors.

ic Service Curricula—Public Administration

the vocational demand for students of public administration is comparatively limited the student of public administration will do well to prepare himself also for a related field of work for which there is not only a cultural but also a vocational demand. The candidate for a public administrative position who is equipped for a career in a professional, scientific or technical field that is common to both public and private enterprise has a distinct advantage. The special courses in public administration listed in the following curriculum are supplementary courses intended for cultural exploratory and orienting purposes. The curriculum as a whole provides for a major in economics, outlines a general preparation for the public service in social science fields and furnishes a basis for more highly specialized graduate courses in the field of public administration.

The following arrangement of courses is recommended:

FRESHMAN YEAR		Units	SOPHOMORE YEAR		Units
Physical Education	-----	$\frac{1}{2}$ $\frac{1}{2}$	Physical Education	-----	$\frac{1}{2}$ $\frac{1}{2}$
Math Education 1 or 2	-----	2	*Additional Natural Science (if needed to meet requirements)	-----	3
Foreign Language (if needed to complete requirements)	-----	3 3	*Additional year course	-----	3 3
Political Science	-----	3-5 3-5	Economics 1A-1B	-----	3 3
Economics 14A-14B	-----	3 3	Political Science 1A-1B or 71A-71B	-----	3 3
Electives	-----	0-5 0-3	Psychology 1A	-----	3
			Electives	-----	4 3
		<hr/> 16 $\frac{1}{2}$ 15 $\frac{1}{2}$			<hr/> 16 $\frac{1}{2}$ 15 $\frac{1}{2}$
JUNIOR YEAR		Units	SENIOR YEAR		Units
Economics 121	-----	3	Economics 100	-----	3
Economics 122	-----	3	Economics 102	-----	3
Economics 128	-----	3	Economics 131	-----	3
Economics 140	-----	3	Economics 199A-199B	-----	1 2
Political Science 175A-B	-----	3 3	Political Science 143A-143B	-----	3 3
Electives ¹	-----	6 6	Electives ¹	-----	9 3
		<hr/> 15 15			<hr/> 16 14

¹Lower division requirements, page 23.

²Minors requirements, page 25. Students who desire to prepare for an adequate major in political science should elect Political Science 111, 112, 113 and may satisfy requirements for a major in economics by substituting Political Science 143A-143B for two courses in economics chosen from the following group: Economics 121, 122, 128.

Public Service Curricula—Clerical and Fiscal Service

The curriculum in Clerical and Fiscal Service leads to the A.B. degree with a major in commerce. It outlines a course of training for clerical and clerical-executive service in accounting and auditing, budgetary, statistical work and miscellaneous financial and fiscal work.

FRESHMAN YEAR		Units	SOPHOMORE YEAR		Units
Physical Education -----		$\frac{1}{2}$ $\frac{1}{2}$	Physical Education -----		$\frac{1}{2}$
Health Education 1 or 2	2		*Additional Natural Science (if needed to meet requirements) -----		3
English 1B, and 1C, 2 or 3 -----	3	3	Economics 1A-1B -----		3
*Foreign Language (if needed to complete requirement of 10 units) -----	0-5	0-5	Economics 14A-14B -----		3
*Natural Science -----	3-5	3-5	Political Science 1A-1B or 71A-71B -----		3
Mathematics D and Economics 2 -----	3	3	Psychology 1A -----		4
Electives ¹ -----	0-5	0-6	Electives ¹ -----		4
		<hr/>			<hr/>
		16 $\frac{1}{2}$ 15 $\frac{1}{2}$			16 $\frac{1}{2}$
JUNIOR YEAR		Units	SENIOR YEAR		Units
Economics 121 -----	3		Economics 131 -----		3
Economics 122 -----		3	Economics 160A-160B --		2
Economics 140 -----		3	Economics 165A -----		1
Economics 161 -----		3	Economics 199A-199B ³ --		3
Political Science 101 ----	2		Political Science 143A-143B -----		7
Electives ² -----	10	6	Electives ² -----		7
		<hr/>			<hr/>
		15 15			16

* See lower division requirements, page 23.

¹ Recommended elective: Economics 18A-18B and Secretarial Training.

² See minors requirements, page 25.

³ Governmental accounting.

lic Service Curricula—Social Work

professional curriculum in social service prepares for admission to graduate work in recognized American schools of social work. This curriculum should be pursued by those who plan careers in federal, state or local welfare work; social work in public schools including preparation for a teaching credential; family and children's private case work; social settlement work; county probation work; child welfare work; statistical and investigational work in private and public agencies; work in public institutions for the defective and delinquent; medical social service and psychiatric social work in hospitals and clinics; executive positions in social work; and social work in numerous other organizations.

The lower division requirements of the Liberal Arts curricula include the general requirements of recognized professional schools of social work and should therefore ordinarily be met in full. However, a student who has definitely decided not to become a candidate for a degree in San Diego State College may substitute the lower division requirements of the institution to which he expects to transfer wherever the requirements are met.

A student who pursues a four-year curriculum in San Diego State College should major in Social Science and minor in Psychology and in a second field of his own choice.

The following subjects should be completed in high school: elementary algebra, 1 (year) unit; plane geometry, 1 unit; algebraic theory, $\frac{1}{2}$ unit; trigonometry, $\frac{1}{2}$ unit; foreign language, 3 units in one language or 2 units in each of two languages.

The following is a recommended arrangement of courses:

RESHMAN YEAR	Units		SOPHOMORE YEAR	Units	
Physical Education -----	$\frac{1}{2}$	$\frac{1}{2}$	Physical Education -----	$\frac{1}{2}$	$\frac{1}{2}$
Math Education 1 or 2	2		Economics 1A-1B -----	3	3
Sociology 54 -----	3		Political Science 1A-1B or		
Psychology 10A-10B -----	3	3	71A-71B -----	3	3
Foreign Language (if			Psychology 1A, 1B -----	3	3
needed to complete re-			*Additional Year Course	3	3
quirement) -----	3-5	3-5	*Additional Natural Sci-		
Liberal Arts 1A-1B or			ence (if needed to meet		
English elective -----	3	3	requirement) -----	3	
Electives ¹ -----	0-2	1-3	Electives ¹ -----		3
	<hr/>	<hr/>		<hr/>	<hr/>
	16 $\frac{1}{2}$	16 $\frac{1}{2}$		15 $\frac{1}{2}$	15 $\frac{1}{2}$

For lower division requirements, page 23.

Recommended electives: Economics 14A-14B, 6 units; Sociology 50, 3 units; Psychology 4A, 2 units.

JUNIOR YEAR	Units	SENIOR YEAR	Units
Economics 122 -----	3	Economics 102 -----	
Social Economics 100-----	3	Economics 140 -----	
Social Economics 101-----	3	Economics 199A-199B --	1
Social Economics E109		Social Economics 103 --	3
(Field of Social Work, Extension Division) --	2	Social Economics 104 --	
Social Economics E110		Social Economics E111	
(Social Aspects of In- dustry, Extension Divi- sion) -----	2	(Social Legislation, Ex- tension Division) -----	2
Psychology 118 -----	3	Social Economics E112	
Psychology 150 -----	3	(Social Case Work, Ex- tension Division) ----	
Zoology 114A -----	2	Psychology 145 -----	3
Electives ¹ -----	5	Political Science 143A-	
		143B -----	3
	15		15

Public Service Curricula—Foreign Service

A curriculum of training for the foreign service in consular, vice-consular and other offices is available on request. This curriculum outlines preparation for competitive examinations required for entrance to the Foreign Officer's Training School at Washington, D. C.

¹ Recommended electives: Anthropology 152, 3 units; History 171A-16 units. See minors requirements and U. S. Constitution requirements on page 25.

riculum in Journalism

road, cultural education, and specific information and understanding fields with which the journalist is largely concerned, are essential to effective training for journalism. Introductory training in the principles and practices of journalistic writing are offered only after a good foundation in correct speaking and writing of English has been laid. Practical training in news reporting and editing for student publications for the daily and weekly press is emphasized.

Following subjects should be completed in the high school: elementary algebra, 1 (year) unit; plane geometry, 1 unit; foreign language, 3 units in one language or 2 units in each of two languages; English, 4 units; natural science, 1 or 2 units in the junior or senior year.

Following is a recommended arrangement of courses:

FRESHMAN YEAR		Units	SOPHOMORE YEAR		Units
Physical Education	-----	$\frac{1}{2}$ $\frac{1}{2}$	Physical Education	-----	$\frac{1}{2}$ $\frac{1}{2}$
Health Education	-----	2	Economics 1A-1B	-----	3 3
English 1B-2 or 3	-----	3 3	Journalism 51A-51B	-----	3 3
History 4A-4B or 8A-8B	-----	3 3	*Philosophy 5A-5B (if		
Foreign Language (if			needed to complete addi-		
needed to complete			tional year course re-		
quirement)	-----	0-5 0-5	quirement)	-----	3 3
Journalism 10A-10B	-----	1 1	Political Science 1A-1B or		
Electives ¹	-----	0-5 0-6	71A-71B	-----	3 3
	-----	16 $\frac{1}{2}$ 15 $\frac{1}{2}$	Psychology 1A, 4A	-----	3 2
			Electives ²	-----	1 1
				-----	16 $\frac{1}{2}$ 15 $\frac{1}{2}$
JUNIOR YEAR		Units	SENIOR YEAR		Units
Natural Science Major ³	-----	6 6	Social Science Major ³	-----	6 6
English Minor ⁴	-----	3 3	Second Minor ⁴	-----	3 3
Journalism 151A-151B	-----	1 1	Journalism 153C-153D ⁵	-----	2 2
Journalism 153A-153B ⁵	-----	2 2	Journalism 199	-----	2
Electives	-----	3 3	Political Science 101 (if		
	-----	15 15	not included in major)	-----	2
			Electives	-----	2 2
				-----	15 15

¹ Lower division requirements for junior standing, page 23.

² Recommended electives: Aesthetics 1A-1B, 4 units; Aesthetics 5, 2 units; Anthropology 50A-50B, 6 units; Geography 2, 3 units; Sociology 50, 3 units; Typewriting 2A, or equivalent, no credit.

³ Recommended electives: Journalism 53A-53B, 2 or more units.

⁴ Social Science major must include a concentration of 12 upper division units in one of the following fields and 6 units in each of two others: Anthropology, Economics, Geography, History, Political Science, Social Economics.

⁵ Minors requirements, page 25.

More than six units of Journalism 53A-53B and 153A-153B may be counted toward the A.B. degree and not more than four units of Journalism 153C-153D may be counted.

COURSES OF INSTRUCTION

Figures in parentheses indicate the unit value of the course.

Courses numbered from 1 to 99 are lower division (freshman or sophomore) courses; those numbered 100 and above are upper division (junior or senior) courses.

Freshmen are not admitted into upper division courses.

A sophomore may enroll in an upper division course for lower division credit provided he has earned an average grade of not less than 1.5 points in all college work undertaken, and provided he receives the instructor's permission to enroll in the course. A second semester sophomore may enroll in an upper division course for upper division credit without foregoing grade limitations provided the units earned in the upper division course or courses are in excess of the sixty-four units required in the lower division.

One "unit" represents an hour recitation or lecture, together with the required preparation, or three hours laboratory work each week during a semester of 18 weeks.

The semester in which courses are offered is designated as follows: (1) Fall; (2) Spring; (3) Fall and Spring; (4) Year course, beginning in the Fall or Spring; (5) Year course. Courses designated as "Year course" begin in the Fall, but those given in the list below may be taken in reverse order (i.e., the second semester of the course may be taken in the first semester) or the second semester may be taken alone. In the case of other year courses, students who have completed the equivalent of the first semester's work may seek permission from the instructor to take the second half of the course. Single semester courses having a letter B as a part of the number (as for example, Art 61B) are supposed to follow another course of the same number unless so indicated in the prerequisites to the course.

Year Courses Open to Registration in the Middle of the

Aesthetics 1A-1B
Aesthetics 102A-102B
Anthropology 50A-50B
Anthropology 151A-151B
Economics 160A-160B
English 52A-52B
English 56A-56B
English 106A-106B
English 107A-107B
French 101A-101B
French 105A-105B
French 107A-107B
French 110A-110B

French 111A-111B
History 4A-4B
History 8A-8B
History 111A-111B
History 121A-121B
History 146A-146B
History 151A-151B
History 156A-156B
History 171A-171B
History 173A-173B
Merchandising 24A, 24B
Political Science 1A-1B
Political Science 175A-175B

anish 101A-101B
 anish 102A-102B
 anish 104A-104B
 anish 105A-105B
 anish 110A-110B

Speech Arts 55A-55B
 Speech Arts 55C-55D
 Speech Arts 155A-155B
 Speech Arts 156A-156B

*ough the College fully expects to carry out the arrangements
 ed in the list of courses, it reserves the right to make changes.
 es in which the enrollment does not come up to the minimum num-
 et by the State Department of Education may not be offered or may
 postponed.*

AESTHETICS

LOWER DIVISION COURSES

B Survey of Music

Springston

elation of music and other arts. Designed to stimulate enjoyment of
 e by developing intelligent listening. The elements of music, its
 ture, folk music of all countries, musical instruments, and the con-
 tions of the best known composers, with some biographical study of
 men. Compositions are presented by orthophonic recording and by
 members. Attendance at a number of local concerts is required.
 revious musical training or background is necessary. Music majors
 equired to complete additional assignments for full credit.

course (2-2)

Fundamentals of Art

Jackson

lustrated lecture course involving a study of aesthetic meaning and
 elation to the structure of art products. Designed to increase both
 rstanding and appreciation of the visual world in general and of the
 rts in particular.

and Spring (2)

Appreciation and History of Art

Jackson

vey of aesthetic development as revealed in the painting, sculpture,
 tecture, and handicrafts from dawn of art to the Renaissance. Illus-
 l.

(2)

UPPER DIVISION COURSES

-102B History of Music

Springston

various movements in the development of music as related to the
 arts. The chronological development of the art of music, with
 ular emphasis on the larger works. Considerable attention is
 to the works of modern composers. Many symphonic works are
 ed from the orchestral scores. Music majors are required to com-
 additional assignments for full credit. Previous study of Aesthetics
 3 or harmony and instrumentation is desirable.

course (2-2)

Appreciation and History of Art

Jackson

period from the Renaissance through the modern school, treated in
 ime manner as in Aesthetics 50.

g (2)

ANTHROPOLOGY

LOWER DIVISION COURSES

50A-50B Man's Evolutionary History

Origin and antiquity of man. Theories of human descent. Classification of races. Origin and early development of civilization.

Year course (3-3)

54 Social Anthropology

An anthropological study of social institutions in primitive and civilized societies. The evolution of family organization, religion, property and government traced in elementary and advanced civilization. Custom and education considered as processes of culture conservation and social control.

Spring (3)

55 Culture History

The prehistoric and historic development of culture types contrasted to Western European and American civilization of today. Egyptian, Semitic, Indo-European, and Oriental cultures examined in light of their bearing on contemporary civilization. Methods of culture spread traced and applied to specific traits. Spengler's theory of history and similar doctrines reviewed.

Fall (3)

UPPER DIVISION COURSES

151A The American Indian: North America

Pre-Columbian cultures of the North American Indian. The origin and migration of New World peoples. Industries, arts, crafts, social organization, religion and other phases of American Indian civilization.

Fall (3) (Offered in 1940-41 and alternate years)

151B The American Indian: Middle America

The development of civilization in Pre-Columbian Mexico and Central America: Aztec, Mayan, and related cultures.

Spring (3) (Offered in 1940-41 and alternate years)

152 Primitive Cultures (Ethnology)

History and cultural development of primitive races of mankind. Consideration given to industries, arts, social organization, and religion of living primitive peoples.

Fall (3) (Offered in 1939-40 and alternate years)

153 Primitive Religion

Beliefs and ritual of primitive man. Magic and religion. Folk animism and polytheism. Primitive mentality and the supernatural.

Spring (3) (Offered in 1939-40 and alternate years)

ART

Candidates for a teaching credential in art should refer to the state "Admission to Teacher Training" on page 26.

Lower division preparation for the liberal arts major in art: Art 5, 50; fourteen units carefully chosen from lower division art courses.

et the stated prerequisites for upper division work. These shall include Art A-B, 6A-6B, or the accepted equivalents, and six elective units in art.

General arts major (upper division): Twenty-four upper division units. These shall include Art 112A, 115A-115B, 152A, 195, and twelve upper division elective units in art, and Aesthetics 150.

It is recommended that the students in meeting degree requirements and choosing free electives, select from the following courses: Anthropology 1A-151B; 106A-106B, 107A-107B, 117; French A-B; History 4A-4B, 4A-111B.

These courses in Appreciation and History of Art and Fundamentals of Art, see Aesthetics, page 63.

LOWER DIVISION COURSES

Art Appreciation

Art 18B Appreciation of Costume and Home Furnishing Patterson

A survey of the periods of costume and home furnishing from primitive man to the present time.

Lectures, discussions, and demonstrations on the underlying principles of dress and home furnishing. (a) A study of the design, color, texture, fabric, and fashion in modern dress with emphasis on suitability to the occasion, the personality and the occasion. (b) Line form, color, texture, fabric, and lighting in relation to the home; the selection and arrangement of furniture, rugs, fabrics, pictures, etc., for all rooms of the home.

Autumn and Spring (2)

Design

Structure Hamann, Patterson

Fundamentals of design and composition and theory of color. Basic course used as a prerequisite for all advanced work.

Autumn and Spring (2)

Structure (continued) Jackson

Original work in creative design with special stress on modern tendencies. Prerequisite: Art 6A.

Autumn and Spring (2)

Line, Color and Display Patterson

Principles of line, color and arrangement applied to store and window display. Study and observation of windows, color and materials used in display. Building models and practical problems in arranging colors, textures and forms in windows, to fit different kinds of merchandise.

Autumn and Spring (3)

Industrial Design Hamann

Original design in its relationship to various fields—ceramics, furniture, tiles, jewelry, and books. A survey and study of materials and processes in machine and hand production. Prerequisite: Art 6A-6B.

Autumn (2)

11B Advanced Industrial Design

Hamar

Advanced problems with emphasis upon the related factors of material and production. Application of problems designed. Prerequisites: Art 6A-6B, 11A.

Spring (2)

14A Lettering

Hous

Fundamental art principles applied to lettering. Practice for quick, accurate lettering; original problems using letters as design. Prerequisite: Art 6A.

Fall (2)

14B Posters and Commercial Art

Hous

The application of lettering to posters, newspaper and magazine advertising, and other forms of commercial art. The study of composition combined with lettering and special study of modern tendencies in public art. Prerequisites: Art 6A, 14A.

Spring (2)

52A Stage Design

Patters

Theory of line, color, and lighting in relation to the stage. Original sets and costumes developed on a miniature stage. Study of the development of the modern art of the theater. Upper division credit will be given in this course to students of junior standing upon the completion of extensive theme work and additional original problems. Prerequisite: Art 6A.

Fall (2)

94 Costume Design

Patters

Original designs of modern costumes suitable to the individual or to distinct types; the drawing of fashion figures; the rendering of fabrics and textures. Prerequisite: Art 6A.

Spring (2)

95 Home Decoration (See Art 195)

Patters

Drawing and Painting

A-B Freehand Drawing

Hous

Semester I: Problems involving perspective to develop ability to draw still life, furniture, exteriors, interiors, and the like.

Semester II: Outdoor sketching of landscape and figure, and studio work from still life and costume pose. Emphasis on composition and technique in the handling of various mediums, pencil, pen and ink, charcoal, pastel, and water color.

Year course (3-3)

15A-15B Life Drawing

Jacks

Drawing from the nude model. Prerequisite: Art A-B.

Year course, beginning either Fall or Spring (2-2)

16A-16B Painting

Jacks

Semester I: Composition of still life and flower forms in water color and oil. Semester II: Landscape and more advanced composition in water color and oil. Prerequisite: Art A-B.

Year course, beginning either Fall or Spring (3-3)

Crafts

61A Fine and Industrial Arts

Hamann

Foundation course which develops unification of work of the elementary arts through activities and experiences. These experiences grow out of environmental activities. They include study and working of clay, lumber and tools, textiles, and cardboard construction. Prerequisite: Art 6A.
and Spring (2)

Elementary Crafts

Hamann

Elements involving the application of design principles to various fields—furniture, textiles, weaving, metal work, wood-carving, and book-binding. Prerequisite: Art 6A.
and Spring (2)

UPPER DIVISION COURSES

Design

106B Printmaking

Houser

Study of print crafts which includes the making of linoleum blocks, wood carvings and etchings. Prerequisites: Art A, B, 6A.
course (2-2)

112B Organization

Houser

Imaginative organization of space by means of color, dark and light, perspective, and textures of various materials. Prerequisites: Art A-B, 6B, and if possible 15A-15B or 106A.
course (2-2)

113B Illustration

Houser

Same as 106A-B except that printmaking is applied to problems of book illustration. Prerequisites: Art A, B, 6A.
course (2) (Offered in 1940-41 and alternate years)

152A Stage Design

Patterson

Art 52A.

153 Stage Costume

Patterson

Costume studied in relation to drama, opera and dance. Original designs for mood and character. Practical problems in designing costumes and accessories for college productions. A brief history of costume from the ancient to the modern time. Prerequisites: Art 6A, 52A or 152A.
course (2)

154 Home Decoration

Patterson

Decorating and designing in class, trips to art galleries, stores, factories and homes, studying how to recognize and choose the best in furniture, rugs, coverings, textiles and pottery as to design, color and materials. Practical experience in designing and arranging furnishings in homes and offices. Working with local stores and architects. Arrangement of flowers and objects for different types of rooms and occasions. Prerequisites: Art A, 6A.
course (2)

Drawing and Painting

115A-115B Life Drawing and Painting

Jack

Drawing and painting from nude and costume models.

Year course, beginning either Fall or Spring (2-2)

115C-115D Advanced Life

Jack

Painting from nude and costume models and advanced composition in Portraiture. Prerequisite: Art 115A-115B.

Year course, beginning either Fall or Spring (2-2)

116A-116B Advanced Painting

Jack

Painting in water color and oils from still life and landscape, stress composition and technique. Prerequisite: Art 16A-16B.

Year course, beginning either Fall or Spring (3-3)

ASTRONOMY

Lower division preparation in astronomy desirable for advanced work. Astronomy 1, 3, 9, and 11; Mathematics 3A-3B, 4A-4B; Physics 1A and 1C-1D; a reading knowledge of German (French also desirable).

LOWER DIVISION COURSES

1 Descriptive Astronomy

C. E. S.

A cultural course planned to develop an appreciation of astronomy with special emphasis on the solar system. Only calculations of an elementary nature are used. Especial attention given to the methods and instruments by means of which astronomical knowledge has been gained. A six-inch Alvin Clarke telescope is available for observation. Prerequisites: Elementary algebra and plane geometry.

Fall and Spring (3)

3 Surveyor's Course in Practical Astronomy

C. E. S.

The principles of spherical astronomy adapted to the needs of engineering students. Computation and observation. Prerequisites: Surveying or permission of instructor. Astronomy 1 and Astronomy 9 desirable.

Spring (2)

5 Historic Development of Astronomy

C. E. S.

The leading facts now known in astronomy in the light of circumstances attending their discovery. Prerequisite: Astronomy 1, or permission of instructor.

Fall (3)

9 Practice in Observing

C. E. S.

A laboratory course designed particularly to go along with and to supplement Astronomy 1. The course will include constellation study, use of astronomical coordinates, elementary methods of determining time, latitude, and descriptive observations of celestial objects with the six-inch telescope. Prerequisite: Astronomy 1 or registration in Astronomy or permission of instructor.

Fall and Spring (1)

Modern Astronomy

C. E. Smith

Study of sidereal astronomy and astrophysics in the light of modern research, especially photographic and spectrographic. Prerequisite: Astronomy 1 and a knowledge of physics or permission of instructor.

ing (3)

UPPER DIVISION COURSE

Special Problems

C. E. Smith

Permission by consent of instructor. Credit and hours to be arranged in advance. Open to students who have completed three units in astronomy.

and Spring (1 or 2)

LIFE SCIENCE

(General Biological Science, Botany, Zoology)

Upper division preparation in botany for advanced work: Botany 2A, 2B, and Chemistry 1A.

Upper division preparation for the liberal arts major in zoology: Zoology 1B, and high school chemistry or Chemistry 1A-1B. Recommended: German, French, Botany 2A, 2B, 4.

Liberal arts major in zoology: (1) At least a C average in upper division biology courses. (2) Twenty-four units of upper division courses in zoology, eighteen in the major subject and six in related courses in botany, chemistry, physics, physiology or bacteriology.

Students preparing to teach science in the junior high school should try to include courses in zoology, botany, bacteriology, physics, chemistry (at least high school chemistry). Courses designed to help the student get acquainted with wild life of the region should be included. Recommended: Zoology 4, 104, 102; Zoology 112, 113A, B, C, D, 121.

Note: A fee is required in all laboratory courses in this department. The fee covers the cost of materials used. For breakage and extra materials in addition to the estimated need an extra charge must be made.

BIOLOGY

LOWER DIVISION COURSES

General. (One-semester course, without laboratory) Johnson

General biology course with lectures, discussion, and demonstrations, 4 hours a week. For students who are not required to take Biology 10B and who prefer a shorter course. A demonstration laboratory is offered one hour a week. Not open to students who have credit for Biology 10A-10B, Zoology 1A-1B, Botany 2A-2B, or high school zoology or botany. Students who have credit for this course and later elect Biology 10B receive 4 units of credit for 10A-10B instead of six.

and Spring (3)

10B Science of Life

Lectures: Johnson

Laboratory: Crouch, Engler, Jannoch, Harvey

Fundamentals of plant and animal biology, with elementary work in plant physiology and heredity. Laboratory work supplements the lecture and includes a study of living and preserved material. Aim of the course is to acquaint the student with the basic facts of biology. Two

lectures and one three-hour laboratory period per week. Designed for those who do not expect to specialize in zoology or botany; not for credit to students who have taken Zoology 1A, or Botany 2A. Students who have taken 10A-10B may elect Zoology 1B or Botany 2A for credit.

Year Course (3-3)

Begins in Fall only

BACTERIOLOGY

199 Special Study

Work other than is outlined in the regular courses. Admission only with consent of the instructor with whom the work is to be done and the chairman of the Life Science department. Credit and hours to be arranged in each case. Open to students who have completed at least 6 units of bacteriology with grades of A or B.

BOTANY

LOWER DIVISION COURSES

2A General

Fundamentals of structure and general behavior of seed plants. Lectures or recitations and six hours of laboratory per week.

Fall (4)

2B General

A continuation of 2A treating morphology and relationship of the seed plants and including an introduction to classification of seed plants. Lectures and laboratory as in 2A.

Spring (4)

4 California Plants

Classification and ecology of representative orders of wild flowers, shrubs and chaparral of the San Diego region, including practice in the use of keys. One lecture and three hours laboratory per week. Occasional Saturday field trips.

Spring (2)

UPPER DIVISION COURSES

102 Plant Geography

Lectures and field work on the principles of geographical distribution of plants. Prerequisite: Botany 2A-2B, or 4, or equivalent.

Fall (2) (Offered in 1939-40 and alternate years.)

104 Taxonomy

Identification, classification and distribution of representative orders of flowering plants. Six hours per week of lectures, laboratory, and field work. Prerequisites: Botany 2A-2B, 4.

Spring (3) (Offered in 1940-41 and alternate years.)

107 Plant Physiology

The activities of plants, including food manufacture, absorption, transduction, transpiration, respiration, growth, and movement. Two lectures and six hours of laboratory per week. Prerequisite: Biology 10A-10B or Botany 2A.

Fall (4) (Offered in 1940-41 and alternate years.)

Special Study

Staff

work other than is outlined in the above courses. Admission by consent of the instructor with whom the work is to be done and the chairman of the department. Credit and hours to be arranged in each case. Open only to students who have completed at least fifteen units of Botany with a grade of A or B.

Fall and Spring (1 or 2)

ZOOLOGY

LOWER DIVISION COURSES

General

Harwood and Engler

Introduction to animal biology dealing with structure, functions, and evolution of animal life. Laboratory work supplementing the lectures (based on the study and observation of living and preserved material (mammals and invertebrates)). Valuable to the general student as well as to the biology specialist, acquainting one with the fundamental facts and theories of biology as they pertain to animal life. Two lectures or recitations and six hours of laboratory per week. Students who have credit for 10A-10B receive no credit for Zoo. 1A but may enter Zoo. 1B.

Fall (4)

General

Harwood and Engler

Continuation of 1A. The structure, relationships, and classification of the chordates. Two lectures and six hours of laboratory per week. Prerequisite: Zoology 1A or Biology 10B.

Fall and Spring (4)

Anatomy and Physiology

Crouch

Elementary course in human anatomy and physiology. Prerequisite: high school biology, or Biology 1 or 10A or Zoology 1A. Lectures and six hours per week.

Fall and Spring (3)

UPPER DIVISION COURSES

Embryology

Johnson

Development of vertebrates as illustrated by the frog, chick, and mammal. Six hours of laboratory and two hours of lecture per week. Prerequisite: Zoology 1B or Biology 10B.

Fall and Spring (3)

Comparative Anatomy of the Vertebrates

Crouch

Section, study and comparison of organ systems of typical vertebrates. Six hours per week of lecture and six hours of laboratory. Prerequisite: Zoology 1B or Biology 10B.

Fall (4)

Marine Invertebrates

Johnson

Identification and study of behavior and life histories of invertebrates of the San Diego region. Frequent collecting trips to the beaches required. Prerequisite: Zoology 1A or Biology 10B.

Fall (3) (Offered in 1939-40 and alternate years)

113A Taxonomy and Natural History of the Mammals

Harwood and Engl

Frequent field trips and the identification of preserved material. Three hours of laboratory per week.

Spring (1) (Not offered in 1940-41)

113B Ornithology

Crou

The study and identification of birds, especially those of the Pacific Coast and the San Diego region. One hour of lecture and six hours per week of laboratory, or field excursions. Prerequisite: Zoology 1B or Biology 10B.

Spring (3) (Offered in 1940-41 and alternate years)

113C Field Study of Birds

Crou

The study and identification of the birds of the San Diego region. Three hours of laboratory or field work per week.

Spring (1) (Offered in 1939-40 and alternate years)

113D Natural History of Fishes

Harwo

Lectures, laboratory, and field work to acquaint the student with groups of fishes, their habits and economic importance.

Spring (1) (Not offered in 1940-41)

114A Genetics

Harwo

General introductory course designed to acquaint the student with fundamental principles of heredity and variation. Special attention given to the Mendelian interpretations of the facts of inheritance. Two lectures per week.

Fall (2)

114B Evolution

John

The development of theories of evolution. Two lectures or discussions periods per week.

Spring (2) (Not offered in 1940-41)

121 Entomology

Harwo

The classification, life history, structure, and physiology of insects. Prerequisite: Zoology 1A or Biology 10B. Two hours of lecture and two hours of laboratory per week.

Spring (4) (Offered in 1940-41 and alternate years)

130 Readings in Biology

Harwo

Readings from a suggested bibliography with informal class discussion topics. Subjects discussed will include history of biology, biological principles, ecology, economic zoology, zoogeography, breeding habits, and behavior.

Spring (2) (Offered in 1939-40 and alternate years)

199 Special Study

S

Work other than is outlined in the above courses. Admission only by consent of the instructor with whom the work is to be done and the head of the department. Credit and hours to be arranged in each case. Open to students who have completed at least fifteen units of Zoology with a grade of A or B.

Fall and Spring (1 or 2)

CHEMISTRY

division preparation for the liberal arts major in chemistry: Chemistry 1A-1B with an average grade of C or better, Chemistry 7-8, Physics 3 and 3A-3B or their equivalent, Mathematics 3A-3B or the equivalent and a reading knowledge of German. Students planning to do graduate work in chemistry or to transfer to another college, and there work degree with a major in chemistry, are advised to take Physics 1A-1B and Mathematics 3A-3B-4A-4B in place of the courses listed

al arts major (upper division): A minimum of twenty-four upper division units in chemistry including Chemistry 105A-105B, 110A-110B and 111A-111B. The choice of a related minor and the organization of the course of the major student must follow a definite plan approved by the department.

requirements for liberal arts major in physical science, see page 114.

LOWER DIVISION COURSES

3 General Chemistry

Messner, Robinson

general principles and laws of chemistry, and a description of the elements and their compounds. Two lectures, one quiz and two laboratory periods per week. The laboratory work in the second semester consists of work in qualitative analysis. Prerequisites: At least two years of high school mathematics. Recommended: High school chemistry and physics.

course (5-5)

Organic Chemistry

Robinson

general consideration of the carbon compounds (both aliphatic and aromatic) and their derivatives; their synthesis, constitution and properties, and the principles involved. Two lectures and one laboratory period per week first semester; one lecture and two laboratory periods per week second semester. Prerequisite: Chemistry 1A-1B.

course (3-3)

UPPER DIVISION COURSES

Quantitative Analysis

Messner

principles of gravimetric and volumetric analysis. Discussions of the theory of quantitative analysis and practice in the standardization of reagents and analysis of samples. One lecture and two laboratory periods per week. Prerequisite: Chemistry 1A-1B.

course (3)

Advanced Quantitative Analysis

Messner

advanced work in the theory and practice of volumetric, gravimetric and micro-analysis. One lecture and two laboratory periods per week. Prerequisite: Chemistry 105A.

course (3)

110B Physical Chemistry

Messner

lectures and problems on theoretical principles of chemistry. Prerequisite: Physics 1A-1B or 2A-2B and Chemistry 105A which may be taken

concurrently. With the approval of the instructor, advanced course physics may be substituted for Chemistry 105A.

Year course (3-3)

111A-111B Physical Chemistry—Laboratory

Robi

Physico-chemical problems and measurements. Two laboratory periods per week. Prerequisites: Credit or registration in Chemistry 110A-110B

Year course (2-2)

112 Industrial Analysis

Robi

A laboratory course including the analysis of fuels, petroleum products, water, and gas. Prerequisite: Chemistry 105A which may be taken concurrently.

Spring (2) (Offered in 1939-40 and alternate years)

114 Biochemistry

Mes

An introductory lecture course covering the carbohydrates, proteins, and the changes which they undergo in digestion and metabolism as well as a consideration of the vitamins and other accessory food factors and their importance to the body. A brief discussion of the chemistry of plant life. Prerequisites: Credit or registration in Chemistry 110A-110B

Fall (3) (Offered in 1940-41 and alternate years)

118 Colloid Chemistry

Mes

A lecture course covering the theoretical principles of colloid chemistry and the preparation, properties and practical applications of colloids. Prerequisite: Chemistry 110A-110B.

Fall (2) (Offered in 1939-40 and alternate years)

123-124 Organic Preparations

Robi

A laboratory course illustrating some of the more important synthetic methods of organic chemistry. Laboratory and conferences. Prerequisite: Chemistry 7-8. A reading knowledge of German recommended.

Beginning either Fall or Spring (1 to 5-1 to 5)

125 History of Chemistry

Robi

Development of the science of chemistry from the time of the alchemists to the present. Conducted on the reading, report, and seminar basis. Prerequisite: Chemistry 7, 8.

Fall (2) (Offered in 1939-40 and alternate years)

127 Advanced Inorganic Chemistry

Robi

A detailed study of the Periodic Table. Discussion of complex inorganic compounds and oxidation-reduction potentials. Prerequisite: Chemistry 11A-11B and upper division standing.

Fall (2) (Offered in 1940-41 and alternate years)

144 Industrial Chemistry

Robi

Industrial stoichiometry, flow sheets, flow of fluids and unit processes. Lectures, problems, and reports. Prerequisites: Chemistry 1A-1B, Physics 1A-1B or 2A-2B, and calculus.

Spring (3) (Offered in 1939-40 and alternate years)

Special Topics

Instructors of the Department

ervised individual work in specialized branches of chemistry such as acid chemistry, biochemistry, applications of the phase rule, etc. Admission only by the consent of the instructor. Hours and credit to be arranged in each case. Only open to upper division students who have shown their ability to do A or B work in Chemistry.

and Spring (1-3)

ECONOMICS

department provides an opportunity for the student to choose between a major in economics and a major in commerce in satisfying the requirements for the Bachelor of Arts degree.

Economics *Lower division preparation for the liberal arts major in economics and for the junior certificate: Economics 1A-1B and at least one of the following: Political Science 1A-1B or 71A-71B; History 4A-4B, 8B; Psychology 1A and 1B or 4A or 4B; Geography 1 and 2; Anthropology 50A-50B. Recommended: Sociology 50; Economics 14A-18A-18B.*

liberal arts major in economics, 24 upper division units required as follows: Economics 100, 102 or 111, 140 and 199, with 6 units selected from Economics 102 or 111, 123, 131, 133, 135, and 171. Electives: Six upper division units in economics. Economic geography or Political Science 14-143B may be substituted for elective units in economics.

Commerce *Candidates for a teaching credential in business education should refer to the statement "Admission to Teacher Training Curricula" on page 26 and to the curriculum for the A.B. degree with a special credential in Business Education on pages 36 to 39.*

Lower division preparation for the liberal arts major in commerce and for the junior certificate: Economics 1A-1B, 14A-14B (6 units), 18A-18B; English 1B, 2 or 3; Geography 1-2; Mathematics D, or equivalent, and Economics 2; History 4A-4B or 8A-8B or Political Science 1A-1B or 71B.

liberal arts major in commerce, 24 upper division units required. Economics 111, 121, 140, 199 required with 12 units additional chosen in one of the following groups:

Accounting: Economics 160A-160B, 161, 163.

Banking and Finance: Economics 133, 134, 135 and 3 units in electives in economics.

Geography 141 may be used in the electives under B.

LOWER DIVISION COURSES

E 1B Principles of Economics

Cameron

basic principles of economics: utility, wealth, value, price; economic production, distribution, and consumption; rent, interest, wages, profit; competition, monopoly, and large scale production; property, economic waste, and luxury; money and banking, international trade and commerce; transportation corporations, labor problems, socialism, taxation, etc. Aims of the course: (1) to provide a foundation for further intensive study of economic problems; (2) to furnish to those who expect to

follow business pursuits a broad foundation in economic principles; (3) to introduce future citizens to political and economic problems of our time. Lectures, discussions, quizzes, and collateral reading. Open to entering freshmen except by special arrangement.
Year course (3-3)

2 Mathematics of Finance

Wri

Interest and annuities; amortization; sinking funds; valuation of bonds; depreciation; mathematics of building and loan associations; mathematics of life insurance. Prerequisites: Two years of algebra in high school, equivalents.

Spring (3)

14A-14B Accounting

Wri

A knowledge of bookkeeping not required and not advantageous. Balance sheet; profit and loss statement; various types of books; original entry; the opening, conducting, and closing of books for different kinds of businesses; organizations, reorganizations, dissolutions, and consolidations, etc., keeping in view the best modern accounting practice. Five hours lecture and laboratory.

Year course (3-3)

18A-18B Commercial Law

Wu

The leading and fundamental principles of business law. Simple cases showing the actual application of the principles to commercial and business transactions, rather than the development of those principles. Subjects covered: contracts, sales, agency, partnerships, corporations, property, negotiable instruments, insurance, and wills, with a brief study of evidence.

Year course (3-3)

UPPER DIVISION COURSES

100 Modern Economic Thought

A. G. Peter

Classical doctrine in the light of recent economic theory. A critical analysis of contemporary economic thought. Prerequisite: Economics 1A-1B.

Fall (3)

102 Contemporary Theories of Social Control

A. G. Peter

A study of principles, plans and movements for social and economic control including consideration of anarchism, individualism and liberal collectivism, socialism, communism, fascism, and the New Deal.

Spring (3)

111 Economic History of the United States

Wri

A comprehensive survey of American economic development and national legislation in the field of industry.

Fall (3)

121 Business Administration

A. G. Peter

Problems of business administration as an interrelated whole and an indication of lines of study which may lead to the solution of the problems. A discussion of the problems of the business administrator with particular reference to the character of the problems involved.

the control policies and devices of the manager. Questions, problems, case studies. Prerequisite: Economics 1A-1B.

(3)

Local Public Administration

A. G. Peterson

General survey of the field of public administration with particular attention to the organization of the administrative service and the principles, practice and problems of personnel, finance and welfare administration in city and county government.

(3) *(Offered in 1940-41 and alternate years)*

Field Studies in Local Public Administration

A. G. Peterson

Open only to qualified students with the consent of the supervisor.

(1-2) *(Offered in 1940-41 and alternate years)*

Real Estate

Cameron

Real estate in all its aspects: property rights, transfer of title, valuation, finance, selling, property management, taxation, insurance, city planning, and the like, with special emphasis upon problems as they exist in San Diego.

(3) *(Offered in 1939-40 and alternate years)*

Real Estate Law and Practice

Barnes, Conklin, Merrill, Reader

California law and practice relating to the ownership and transfer of real property, including deeds, contracts, mortgages, taxes, escrows, title insurance, etc.

(3) *(Offered in 1940-41 and alternate years)*

Public Finance

A. G. Peterson

Principles and practice of taxation, public expenditures, and financial administration. Prerequisite: Economics 1A-1B.

(3) *(Offered in 1939-40 and alternate years)*

Corporation Finance

Cameron

Corporate form of organization, instruments of long-time finance, methods of raising capital, efficient financial management, and the financial aspects of reorganizations, and governmental control. Prerequisite: Economics 1A-1B.

(3)

Investments

Cameron

Investment principles and practices with emphasis upon problems of the small investor, such as tests of a good investment, sources of information, types of stocks and bonds, mechanics of purchase and sale, investment trusts, real estate mortgages, and the like.

(3)

Money and Banking

Cameron

Elements of monetary theory. History and principles of banking with special reference to the banking system of the United States. Prerequisite: Economics 1A-1B.

(3)

Statistical Methods

Deputy

Nature and uses of statistical method in the social sciences. Practice in the tabular and graphical presentation of data; in the computa-

tion of averages, ratios and coefficients, measures of dispersion, measures of relationship. Research studies are made, utilizing data obtained from typical economic and commercial situations, involving index numbers, time series, and business cycles and barometers. Opportunity to obtain practice in the use of calculating machines and aids to computation. Prerequisite: Mathematics A and D or equivalent recommended: Mathematics C, or equivalent. Only two units of credit are available for this course in the case of students who previously have completed Education 140.

Spring (3)

160A-160B Advanced Accounting

An intensive study of the corporation, its accounting and financial problems; a thorough study of the balance sheet; depreciation; financial accounting, etc. Under practical accounting an endeavor is made to design, construct, and operate sets of books to meet the needs of different conditions and kinds of businesses. Six hours lecture and laboratory. Prerequisite: Economics 14A-14B.

Year course (3-3) (Offered in 1940-41 and alternate years)

161 Cost Accounting

Principles and methods of cost accounting in the mercantile establishment and in the factory. A study of bookkeeping procedure, the forms used, and their application to practical problems. Prerequisite: Economics 14A-14B.

Spring (3) (Offered in 1939-40 and alternate years)

162 Accounting Systems

The accounting systems used in various types of business and financial concerns. Some practice in devising and installing systems. Prerequisite: Economics 14A-14B.

Spring (3) (Offered in 1939-40 and alternate years)

163 Machine Accounting

The application of mechanical accounting devices to accounting conditions together with a study of efficient machine methods that conform to accounting practice and yet meet the practical accounting requirements that are found in many classes of business. In addition to a thorough study of machine installations, the course requires considerable practice in the operation of standard accounting machinery. Prerequisite: Economics 14A-14B.

Fall (3)

164 Income Tax Procedure

A consideration of the problems arising from the Federal income tax. The problems are approached from the point of view of the taxpayer's desires to determine the exact application of the law to the interests it represents as well as from the accounting point of view. No knowledge of accounting procedure is necessary.

Fall (2) (Offered in 1939-40 and alternate years)

165A-165B Auditing

The fundamental principles of accepted procedures of auditing and related types of accounting engagements.

Year Course (2-2) (Offered in 1940-41 and alternate years)

Transportation

Cameron

development of railway transportation; railroad financing; rates of rate making; governmental regulation; government operation of railroads during the war; recent development of motor and air transportation; current problems. Prerequisite: Economics 1A-1B.

(3) (*Offered in 1940-41 and alternate years*)

199B Special Study

The Staff

Reserved exclusively for seniors with a major in economics or commerce.

(1), Spring (2)

ECONOMIC GEOGRAPHY

(See Geography)

MERCHANDISING

Elements of Merchandising

Torbert

Survey of the various methods by which products reach the retailer; retail store structure, its principles and functions; types of retail institutions, their origin, growth and trends.

(3)

Principles of Merchandising

Torbert

Stores, the problems of store managers and merchandising executives; location, organization, personnel, sales promotion, buying and selling of merchandise, inventory, turnover and control methods. Retailing problems in retailing, problems of profitable operation under present conditions.

(3)

Principles of Salesmanship

Torbert

Sociological and psychological backgrounds of salesmanship, newer concepts of selling; the selling of ideas and services; steps in a sale; motivation, interest, desire, closing; the development of clienteles and of sales territory; the personal factor in salesmanship.

(3)

Applied Salesmanship

Torbert

Applied work in cooperating stores, or outside selling; relationships between theory and practice in specific selling situations; student's sales; commission, and other incentive methods of payment in selling; the problem of the sales manager, or store manager, in reducing selling costs.

(2)

Principles of Advertising

Torbert

Advertising, principles, and applications; market surveys and analysis; psychological appeals; budgeting of appropriations; selection of advertising media; layout, art work copy; publicity and promotion stores; institutional advertising; the functions of agencies.

(3)

SECRETARIAL TRAINING

A Business Mathematics

A practical course in the mathematics of business. A thorough study of interest, compound interest, discount, amortization tables, insurance rates, etc.

Fall and Spring (1) (No degree credits in Liberal Arts curricula.)

1A-1B Typewriting

A rapid development of a thorough command of a keyboard by the method. The acquisition of speed and the artistic arrangement of typewritten material with special reference to commercial forms, tabulars, and billing; specifications, legal forms, and preparation of manuscripts, transcription, mimeographing, etc. Eight hours lecture and laboratory practice.

Year course (3-3) (Only three units will be counted in satisfying A.B. degree requirements in Liberal Arts curricula.)

2A Typewriting

A short course designed for those not wishing to enter the business but desiring a knowledge of the use of the typewriter. Five hours laboratory practice.

Spring (2)

3A Office Methods and Appliances

Practice and principles of office management, including organization, arrangement and operation. Study and use of modern office appliances such as the multigraph, mimeograph, filing devices, calculating and bookkeeping machines. Prerequisite: Secretarial Training 1A or its equivalent.

Fall and Spring (3)

5A-5B Stenography

An intensive course designed for the practical preparation of office stenographers. A thorough study of the Gregg System. Development of ability to read and write shorthand rapidly and correctly, both literary and commercial. The shorthand speed necessary to pass a civil service examination is attained by the end of the year.

Year course (5-5)

6A-6B Advanced Stenography

Development of speed in writing and transcription. Advanced dictation on letter forms, legal forms, speeches, and literary and technical material.

Year course (3-3)

10A English in Business

Theory and practice of business correspondence. Business letter writing, applied salesmanship; problems in writing credit and collection letters, applications for employment, adjustment letters, and sales letters. Prerequisite: English 1A or equivalent, as indicated by Subject A Examination, or record from college.

Fall and Spring (3)

EDUCATION

LOWER DIVISION COURSES

Music in the Elementary School

Arnold

n objectives of music teaching in the public elementary schools. ly of the child voice. Organization of song material by grades. Pro- re in presenting rote songs, ear training, elementary notation, music ing, and part singing. Conducting. Not open to students taking the elementary credential, nor to freshmen. Prerequisite: Music 1A, or the valent.

and Spring (2)

Art in the Elementary School

Arnold

ussion of the elements and principles of art and their place in the expression and appreciation of the elementary school child. Lectures trated with examples of children's work and opportunity given for erience with mediums used in elementary school problems. Not open tudents taking the elementary credential. Prerequisite: Art 6A.

and Spring (2)

UPPER DIVISION COURSES

A-B—Methods and Materials of Instruction

R. Perry, and Special Supervisors

ear course required of all candidates in their junior year for the jun- high and special secondary credentials. Candidates for a combination ither a junior high or a special secondary credential may substitute work of the elementary practicums for the first half of this course not vice versa. The first half of the course deals with general meth- of instruction and the organization and functions of the secondary of curriculum; the second half deals with specific methods used in the of the teaching major or minor and with directed observation of ing.

and Spring (6)

A-B The Psychological Foundations of Education

Deputy

ear course required of all teacher training candidates in their junior . A basic course required in the curriculum preparing for the ral secondary credential. The first half of the course deals with elementary statistics and the use of tests and other measuring devices; second half deals with the problems of child growth and develop; t and education psychology.

and Spring (6)

Philosophy of Education

fundamental biological, psychological, philosophical, social principles rlying modern education, in connection with the demands of modern ty in a complex social, economic, and scientific world, with a view to formulation of a working philosophy for the educative process. gned as a culmination of the studies of education and its procedures. i only to students with senior standing.

mer (3)

History of Education

rief study of early Hebrew, Greek, Roman and early Christian edu- n; of the changes brought about by the Renaissance; of the transi-

tion to modern secular education; brief reviews of the educational philosophies of the great reformers; a concluding study of the development of the American school system and of American ideals and practice in education.

Summer (3)

108 Educational Measurements

A brief survey of the development of scientific measurement in the elementary school field, including an intensive study of the more reliable and valid tests of school achievement and of mental ability. Statistical training given in handling data obtained by using measurements in typical school situations, leading to a study of the uses of tests. Practice in the construction of teacher-made, objective tests in the elementary school subjects.

Summer (3)

109 Educational Administration and Supervision

A survey of the systems of organization, classification, and promotion of pupils, and such problems as finance, the teaching staff, building standards, extra-curricular activities, etc. Prerequisites: Education 125, 108, or equivalents.

Summer (3)

110 Educational Organization and Supervision

Types of supervision and methods of evaluating and improving teaching. Prerequisites: Education 125, 108, or equivalents.

Summer (3)

111 English in the Junior High School

Objectives of literature and language teaching in the junior high school; criteria for selection of material; technique of classroom procedure; observation in the city schools. Prerequisite: The satisfaction of the lower division requirements in English for the teaching major in English.

Summer (3)

114 Social Science in the Junior High School

The teaching of some of the elementary facts and principles of a "general" social science suited to the experience and development of the junior high school pupil, through the medium of such social studies in the junior high school curriculum as history, geography, and civics. Methods of developing a genuine and continuing interest in social and civic problems through observation and reading, discussed and illustrated. Special stress on evaluating historical and geographical material for educative purposes at this level. Prerequisites: Six units of geography and six units of history.

Summer (3)

115A-B The Principles and Functions of Education

Ault, Hepner, R. Pey

A year course restricted to students with senior standing or the equivalent. Required of all junior high school candidates. The second half of the course is required of all special secondary credential candidates and the first half is required of all elementary credential candidates.

The first half of the course deals with the historical backgrounds and underlying philosophies upon which the modern public school system is based.

established; the last half deals with the principles and sociological factors functioning in the modern secondary school.

and Spring (8)

Practice Teaching

R. Perry and Supervisors

Systematic observation, participation and teaching under supervision in campus training school, the Euclid affiliated city elementary school, Woodrow Wilson Junior High School, and the Herbert Hoover Senior School. All students enrolled in this course are automatically placed in a section meeting bi-weekly throughout the semester as announced in the time schedule.

The general plan is for elementary school credential candidates to take, in addition to the education practicums, an afternoon of teaching daily in campus training school or two and one-half hours daily in the Euclid School throughout one semester; junior high school and special secondary school credential candidates will be guided by their adviser relative to the distribution of their practice teaching. For those seeking a combination of credentials, the requirements for each teaching level must be satisfied. Further information regarding this requirement should be requested of the Dean of Education when the student first registers for practice teaching.

Forty clock hours of practice teaching will usually carry one unit of credit in the course, but the final amount of credit allowed will depend on the character and quality of the teaching done by the student. Practice teaching requirements may be reduced for those who furnish evidence of successful public school experience.

The maximum amount of credit allowed for this course is twelve units. Universities usually reduce the amount of practice teaching credit to allow to four units. Students planning to transfer to such institutions should be prepared to meet this reduction with an equal number of acceptable units in other courses.

A grade below a C is acceptable for credit in this course.

Prerequisites: Completion of 75 units of college work; admission to teacher training; a C average in all college work and in the work of the preceding semester; three units of work in psychology. No credit will be given unless the student registers for this course in the office of the Dean of Education.

Art in the Junior High School

Problems, discussions and observations which will give an understanding of the type of work that should be taught in junior high schools.

Spring (3)

Principles of Secondary Education

Principles of educational science that should underlie the organization, administration and curriculum of the secondary school. Prevailing trends of high school education; tendencies in the direction of future development. Particular attention to the method of directing learning in secondary schools. Prerequisite: Psychology 1A. Open only to students with senior standing.

Spring (3)

130 Educational Psychology

Man's equipment for learning and the learning process. Consideration given to human behavior which is fundamental to learning. The study of learning includes such topics as laws of learning, improvements in learning, remembering and forgetting, fatigue in learning, and the transfer of training. Prerequisite: Psychology 1A.

Summer (3)

140 Elementary Educational Statistics

An introductory study of measures of central tendency, of variability, of relationship which are commonly used in connection with educational work. Laboratory training in statistical method and opportunity to obtain practice in the use of calculating machines and other aids to computation. Data for statistical research taken from typical school situations. Only 2 units allowed students who have taken Economics 101.

Summer (3)

142 Educational Sociology

A consideration of school practices in light of social needs; interrelationships of schools and other social agencies; and trends in cooperative activities among community organizations. Selected individual student projects to make personal contacts with various types of public and private social institutions and with some current social movements. Prerequisite: Upper division standing.

Summer (3)

145 Organization and Administration of Music Education

L. D. Smith

Theory of the general principles of music administration; correlation of music with the various subjects in the public schools; music tests; creative work.

Fall (2)

147—Education Practicum—Lower Levels

Arnold, Barbour, E. Hammack, Nordahl, R.

The education practicums are intended to integrate content material, educational principles and theory with practice as found in the modern progressive elementary school. Conferences are held daily by each of the training school supervisors who is responsible for a small group of 10-15 students. All the students enrolled in each practicum meet as a group with the principal of the training school or one of the special subject supervisors of art, music and physical education three times a week. Lectures, discussions and reports of observation and reading assignments occupy the time of these meetings. In order to see the relationship of the theory under discussion and actual school practice the student is required to spend two hours per week in observation under the direction of the supervisor and five hours per week in participating in the activities of the pupil-group under the direction of the principal. This participation takes the form of induction into teaching concurrently with the mastery of fundamental processes and techniques. A considerable amount of the credit in the practicums is not for content material ordinarily found in education courses but is included under this title because of its very close relationship in use. For evaluating credit the content of each practicum is distributed as follows: education methods, 5 units; educational principles and psychology of learning,

s; mental hygiene, 1 unit; health and physical education, 2 units; practice teaching, 2 units.

group of courses taken at this or another college will not be recognized as substitute for the practicums. Credit for such courses may be submitted to the Dean of Education to ascertain if it will reduce in any way total requirements.

student should register for his first practicum course at the beginning of junior year or as soon thereafter as he can qualify. Assignments to supervisor-groups and to participation will be made by the principal of training school at the time of registration. Not more than 30 full-time participants in the lower level nor more than 45 full-time participants in the upper level may be registered in any one semester.

and Spring (12)

Education Practicum—Upper Levels (See description above.)

Arnold, Bacon, Barbour, Corbett, K. Post, J. Stone

prerequisite: Education 147.

and Spring (12)

Commercial Education

Wright

s, objectives and procedures in commercial education. A study of curricula, together with a consideration of the content of commercial subjects; tests applicable to commercial teaching.

(2)

Junior Business Training

Wright

methods and content of the course in the elements of business training as offered in the junior high school. Not open for credit for those who have taken Secretarial Training 3A.

ing (2)

Stenography

Amsden

methods and content of courses in stenography. Prerequisites: Secretarial Training 5A-5B, 6A.

(2)

Bookkeeping

Wright

various types of bookkeeping method, with considerable study of content.

(2)

Typewriting

Amsden

methods in typewriting and office procedure. Prerequisite: Secretarial Training 1A.

ing (2)

Graphic Methods in Education

Perry

fundamentals of pictorial representation as used by the teacher in preparing classroom material, in educational literature, in presenting the facts to the public, and in administrative control. Emphasis will be placed on the construction of charts and graphs for popular consumption. Course particularly valuable to candidates for the administrative credential. No prerequisite although it is desirable that the student have some teaching experience.

ing (2)

170 Administration of a Visual Instruction Program

The service program of a visual instruction center is studied as a center for selecting, organizing and distributing center for classroom illustrative materials; a teacher training and advisory bureau in the technical and correct use of visual aids; a photographic production laboratory for making current and local illustrative materials for the curriculum; a testing division for evaluating visual equipment, standardization and upkeep of same; a center for correlating and integrating the school program with opportunities offered by other community educational institutions and organizations; an advisory department for supervising school film productions and for instructing teachers and students in the use of photography and appreciation of photoplays.

This course is given at the visual education center of the San Diego schools and the enrollment is limited to students who have made previous arrangements with the head of the Education Department and with the instructor.

Fall and Spring (2)

176 Speech Arts in the Secondary School

Organization and conduct of junior high and high school speech activities.

Fall (2)

199 Educational Problems

Education
(Dean of Education in charge)

A course for senior students in residence and enrolled in teacher training who have shown ability to work independently on educational problems. The problem can be chosen only after consultation with a staff member. Admission by consent of the staff. Credit and hours to be arranged.

Fall and Spring (1-3)

ENGINEERING

(For curricula in engineering see page 55)

LOWER DIVISION

1A-1B Plane Surveying

Use and adjustment of surveying instruments, computations and map making, together with a study of land, topographic, city, and mine surveying. Two instruction periods and one three-hour period for field work and mapping each week. Prerequisites: Trigonometry and Mechanical Drawing, or equivalent, and sophomore standing.

Year course (3-3)

3 Summer Class in Surveying

Practical field problems in reconnaissance, triangulation, location and topographic surveys. Observations for meridian, time and latitude. Precise work in linear and angular measurements. Development of self-reliance, accuracy, and professional skill on the part of the student. A four-week course held in the mountains near San Diego. For details regarding location of camp, date of registration, date of opening, and other arrangements, a special announcement of the surveying camp may be secured at the Registrar's Office. Offered if demand is sufficient. Prerequisite: Surveying 1A-1B.

Summer (3)

Descriptive Geometry **Walling**
 Fundamental principles of descriptive geometry and their application to
 elements of engineering. Lectures and drafting. Prerequisites: One
 of mechanical drawing, and sophomore standing.
 (3)

Machine Drawing **Walling**
 Design and drawing of simple machine parts with emphasis upon the
 production of standard drawings. Lectures and drafting. Prerequisite:
 Engineering 21.
 (3)

Materials of Construction **Walling**
 Physical properties and adaptability of materials used in engineering.
 Lectures. Prerequisite: Sophomore standing.
 (2)

Elements of Electrical Engineering **Walling**
 Mathematical and descriptive consideration of electrical circuits and
 machinery together with a general survey of the electrical industry. Pri-
 ority for engineering students other than mechanical or electrical. Lec-
 tures. Prerequisites: Mathematics 4A, Physics 1C.
 (3)

Elements of Heat Power Engineering **Walling**
 Fundamental consideration of fuels, combustion, steam, boilers, furnaces,
 engines, steam engines, steam turbines and auxiliaries, internal com-
 bustion engines. Lectures. Prerequisites: Mathematics 3B, Physics 1B.
 Priority for engineering students other than mechanical or electrical.
 (3)

UPPER DIVISION

Elements of Electrical Engineering **Walling**
 Essentially the same as Engineering 25 with addition of special problem
 for advanced students. Prerequisites: Mathematics 4A, Physics 1C.
 Priority for students enrolled in the Engineering Physics curriculum.
 (3)

Elements of Heat Power Engineering **Walling**
 Essentially the same as Engineering 28 with addition of special problem
 for advanced students. Prerequisites: Mathematics 3B, Physics 1B.
 Priority for students enrolled in the Engineering Physics curriculum.
 (3)

ENGLISH

Lower division preparation for the liberal arts major in English: E 1B or 1C, and 2 or 3; and six units from 52A, 52B, 56A, 56B.

Liberal arts major (upper division): 24 units in upper division E to be selected and arranged under supervision of the department reading knowledge of German or French.

LOWER DIVISION COURSES

1A Freshman English

Evans, Johnson,

The elements of composition, including drill in grammar and exercises in vocabulary building and careful reading, and an introduction to the principles of effective writing.

Fall and Spring (3)

1B Freshman English

Adams, Evans, Johnson, Kennedy, Trail, F. D. W.

Composition stressing exposition. Reading from essays of England and America since 1850. Prerequisite: Satisfactory Subject A test or equivalent from another college.

Fall and Spring (3)

1C Freshman Literature

Evans, Kennedy

An introduction to literature significant in European and American culture, with composition.

Fall and Spring (3)

2 Sophomore English

Kennedy, F. D. W.

Composition stressing personal narrative and informal essay. Reading from field of biography and memoirs. Prerequisite: One semester Freshman English.

Fall and Spring (3)

3 Sophomore English

Adams, Dick

Composition stressing article writing of varied types. Reading current periodical literature. Prerequisite: One semester of freshman English.

Fall and Spring (3)

10 Recreational Reading

Dick

Development of personal tastes for leisure-time reading through lecture and oral or written reports. May be taken a second time with different material.

Fall and Spring (1)

52A-52B Types of Literature

Adams, Dick

Semester I: Introduction to the study of lyrical and narrative poetry; origin and elements of poetry; typical poems. Semester II: Introduction to the study of dramatic poetry and prose, the essay, novel and story; elements, principles and characteristics; examples.

Year course (3-3)

55A-55B Dramatic Production

See Speech Arts, page 122.

105B Survey of English Literature **Keeney**
 most important masterpieces of English literature from the Anglo-
 Saxon period through the Victorian age.
3-3

UPPER DIVISION COURSES

106A Modern Prose Fiction **Dickhaut**
 present and contemporary fiction in novel and short story, including
 British and Continental, as well as a selection from present day American.
3-3

106B Advanced Composition **Dickhaut**
 laboratory course in modern prose writing. Semester I: Artistic
 narrative, with description. The short story. Semester II: The essay,
 magazine article, criticism. Outside readings. Prerequisite: One
 semester of college composition. Either semester may be taken first.
3-3 (Offered in 1939-40 and alternate years)

107B Advanced Composition **Adams**
 These courses are designed for students who wish to do independent
 work in composition. The discussions will consider the problems of effective
 expression as exhibited in the work of the members of the class.
 Prerequisite: Same as for 106A, 106B. Either semester may be taken
 first.
3-3 (Offered in 1940-41 and alternate years)

108 Recreational Reading **Dickhaut**
 advanced course in the group reading of modern drama, poetry and
 fiction.
3-3 and Spring (1)

109A The Age of Elizabeth **Adams**
 Drama and Prose, exclusive of the drama.
3-3 (Offered in 1940-41 and alternate years)

109B The Elizabethan Drama **Adams**
 Emphasis is given to the forerunners and early contemporaries of Shakes-
 peare.
3-3 (Offered in 1940-41 and alternate years)

110 Shakespeare **Johnson**
 intensive reading of Shakespeare's plays, with special attention to a
 particular group of the comedies and another of the tragedies. Lectures and
 critical reports.
3-3

111 Swift and His Contemporaries **Keeney**
 study of the literature of the first half of the eighteenth century, with
 special emphasis on social satire of Swift, Pope, Addison, Steele, Gay and
 Swift.
3-3 (Offered in 1939-40 and alternate years)

118B Age of Johnson

Ke

A study of Johnson and his circle as representatives of their age, together with a study of Burns, Blake, and others as forerunners of the age of Romanticism.

Spring (3) (Offered in 1940-41 and alternate years)

119 The Romantic Poets

Ad

A study of early nineteenth century poetry; the work of Wordsworth, Coleridge, Byron, Shelley, and Keats, in relation to the thought of the revolutionary period.

Spring (3) (Offered in 1939-40 and alternate years)

121 Poetry of the Victorian Period

F. D. Wa

A study of Tennyson and Browning and their contemporaries and successors, relating English poetry to nineteenth century life and thought.

Fall (3) (Offered in 1939-40 and alternate years)

126 Nineteenth Century British Prose

Dick

Readings and discussions of romantic and mid-Victorian prose writers including Coleridge, Hazlitt, Lamb, de Quincey, Carlyle, Landor, Macaulay, Mill and Thackeray.

Fall (3) (Offered in 1940-41 and alternate years)

127 Modern British Prose

Dick

Late nineteenth and early twentieth century essays of Arnold, Beer, Belloc, Chesterton, Galsworthy, Gosse, Huxley, Inge, Newman, Pater, Ruskin, Shaw, Stevenson, Tomlinson and Wells.

Fall (3) (Offered in 1939-40 and alternate years)

130A American Literature

F. D. Wa

A survey of American literature with its backgrounds from the beginning of the 19th century to about 1890. Cooper, Melville, Hawthorne, Emerson, Thoreau, Whitman, Mark Twain and others are considered and related to national development. Lectures, discussions and reports.

Fall (3)

130B American Literature

F. D. Wa

A survey of American literature with its backgrounds, covering the period from about 1890 to the present time. Extensive reading in recent and contemporary poetry, fiction, etc. Lectures, discussions and reports.

Spring (3)

143 The Development of the English Novel

F. D. Wa

History of the English novel from the beginnings to Hardy. Extensive reading of novels with reports. Lectures and discussion.

Fall (3) (Offered in 1940-41 and alternate years)

151 Medieval Literature

Ke

The literature of the fourteenth century, especially the verse romances and the poetry of Chaucer.

Fall (3)

A Survey of Drama: Comedy **Evans**
 dies in the field of comedy, based on selected readings from the works
 Continental, English, and American dramatists. Lectures, discussions,
 reports on reading.
ing (3) (Offered in 1939-40 and alternate years)

B Survey of Drama: Tragedy **Evans**
 cedure as in 152A, with selections taken from the field of tragedy.
ing (3) (Offered in 1940-41 and alternate years)

A-156B Advanced Drama **Jones**
 Speech Arts, page 123.

Seventeenth Century Literature **Adams**
 phasis is put upon the work of Milton.
l (3) (Offered in 1939-40 and alternate years)

Rhythm, Pantomime and Choric Verse **Jones**
 Speech Arts, page 123.

SPEECH ARTS

(See page 121)

FOREIGN LANGUAGES

*a background for advanced work in Romance languages, students are
 sed to include in their electives as many as possible of the following
 ses: Geography 118, History 121A, 121B, 145A, 145B, Aesthetics 50
 '50: English 1C, 52A, 52B, 56A, 56B, 101, 116A, 116B, 117, 118A,
 R, 119, 121, 126, 143, 160.*

FRENCH

LOWER DIVISION COURSES

*er division preparation for the liberal arts major in French: French
 -C-D; either German A-B or Spanish A-B; History 4A-4B.*

*ral arts major in French: Twenty-four units of upper division work,
 which at least eighteen must be in French, and of which a maxi-
 e of six may be in related subjects, arranged in consultation with the
 rman of the department. At least a C average in upper division
 r courses.*

Elementary **Baker, L. P. Brown, Phillips**
 asive study of French grammar and syntax; daily written work
 ssed in class; class drill in conversational idiom and pronunciation;
 ng with oral discussion and résumés; dictation; introduction to con-
 orary prose writers. Credit not given for French A unless followed
 rench B. Students who have had one year of French in high school
 ld register for French B. Those who have had two years of French
 gh school should register for French C.
course (5-5)

Intermediate **E. M. Brown, Phillips**
 ing and composition; study of standard prose as a basis for class
 , collateral reading with résumés and written reports in French;

dictation. Individual conferences. Prerequisite: French B or two years of high school French, or its equivalent. Students with three years of high school French may take D with full credit.

Year course (3-3)

SC Scientific

L. P. B.

Reading taken from the fields of chemistry, physics, medicine, zoology, biology, etc. Outside readings of books and periodicals. Oral and written reports. Prerequisite: French B or equivalent.

Fall (2) (Offered in 1939-40 if registration warrants)

UPPER DIVISION COURSES

101A-101B Conversation and Composition

E. M. B.

Prerequisite: French D, or its equivalent, with grade of C.

Year course (3-3) (Offered in 1940-41)

105A-105B Modern French Drama

E. M. B.

Plays of Musset, Scribe, Augier, Dumas fils, Pailleron, Brieux, Ibsen, Maeterlinck, Rostand, and others read and discussed as to subject matter and technique. Outside reading and reports. Prerequisite: French D, or its equivalent, with grade of C.

Year course (3-3) (Offered in 1941-42)

107A-107B Eighteenth Century Literature

L. P. B.

The works of Montesquieu, Voltaire, Rousseau, The Encyclopédistes and others. Prerequisite: French D, or its equivalent, with a grade of C.

Year course (3-3) (Offered in 1940-41)

110A-110B Modern French Novel

E. M. B.

The French novel from Victor Hugo to the present day, including authors as: Hugo, Dumas, Stendhal, Balzac, Flaubert, Loti, André Gide, France, Bourget, Bordeaux, Bazin, Barres, Romain Rolland, A. Marcel Proust, and others. Class and outside reading and reports. Prerequisite: French D, or its equivalent, with grade of C.

Year course (3-3)

111A-111B Seventeenth Century Dramatic Literature

E. M. B.

Reading in class of plays of Molière, Corneille, and Racine. Outside readings and lectures on the background of the seventeenth century France. Prerequisites: French D, or its equivalent, with a grade of C.

Year course (3-3) (Offered in 1942-43)

199 Comprehensive Reading and Survey Course

The

Designed to fill up the gaps in the reading done in courses. Class meeting once a week for guidance, reports, and quizzes. Required of all students majoring in French.

Spring (3)

GENERAL LANGUAGE

LOWER DIVISION COURSE

A Latin and Greek Word Derivation

L. P. B.

A general and elementary course in philology. A study of Latin and Greek roots of most frequent occurrence in English, and of the English words derived from them. Not open to first semester freshmen.

Fall (2)

GERMAN

LOWER DIVISION COURSES

Elementary

H. K. Walker

Pronunciation, reading and grammar, with practice in simple conversation, narration and description, both oral and written. Credit not given for German A unless followed by German B. Students who have had one year of German in high school should register for German B. Those who have had two years of German in high school should register for German C.

course (5-5)

Intermediate

H. K. Walker

Reading and composition; study of standard prose as basis for class work; collateral reading with written reports; German conversation, the texts read as a basis; dictation. Prerequisite: German B or two years of high school German, or its equivalent. Students with credit for three years high school German, or its equivalent, should enter German D, and will receive full credit.

course (3-3)

Elementary

H. K. Walker

Course similar to German A-B, but meeting only three times a week giving only three units of credit a semester. Intended for those who wish to go more slowly than is possible in a course meeting five times a week. Credit not given for German 1 alone.

course (3-3)

D Scientific

Messner

One semester. Readings in scientific reader on chemistry, physics, etc.: oral and written reports on scientific subjects read outside of class; laboratory work; reading. Spring semester. Readings in special scientific or technical works; weekly written reports required; sight reading. Prerequisite: German SC-German B with a grade of C or three years of high school German; German SD-German SC, German C with a grade of C, or three years of high school German.

course (2-2)

SPANISH

Preparation for the liberal arts major in Spanish: Spanish 1-D; French A-B; History 4A-4B.

Liberal arts major in Spanish: Twenty-four units of upper division work, of which at least eighteen must be in Spanish, and of which a maximum of six may be in related subjects, arranged in consultation with the chair of the department. At least a C average in upper division major work.

LOWER DIVISION COURSES

Elementary

L. P. Brown

Intensive study of Spanish grammar and syntax, with daily written class drill in conversational idiom and pronunciation; reading with discussion and résumé; dictation; introduction to contemporary Spanish writers. Credit not given for Spanish A unless followed by Spanish B. Students who have had one year of Spanish in high school should

register for Spanish B. Those who have had two years of Spanish high school should register for Spanish C.

Year course (5-5)

C-D Intermediate

Reading and composition: study of standard prose as basis for work; collateral reading in prose and drama, with written reports in Spanish; dictation. Class work conducted mainly in Spanish. Individual conferences. Prerequisite: Spanish B or two years of high school Spanish, or its equivalent. Students with credit for three years of school Spanish, or its equivalent, should enter Spanish D, and will receive full credit.

Year course (3-3)

1-2 Elementary

A course similar to Spanish A-B, but meeting only three times a week and giving only three units of credit a semester. Intended for those who do not wish to major in Romance languages and for those who wish to go more slowly than is possible in a course meeting five times a week. Students who have had one year of Spanish in high school should register for Spanish 2. Credit not given for Spanish 1 unless followed by Spanish 2.

Year course (3-3)

3-4 Intermediate

A continuation of Spanish 1-2. Reading of Spanish prose; composition and outside reading in Spanish 4, with reports. Prerequisite: Spanish 2 or its equivalent.

Year course (3-3)

UPPER DIVISION COURSES

101A-101B Conversation and Composition

Prerequisite: Spanish D, or its equivalent, with grade of C.

Year course (3-3)

102A-102B Introduction to Spanish Classics

Reading from several types of classical literature. Lazarillo de Tormes and other novels of Roguery; selections from Don Quixote, and Cien Mejores Poesias Castellanas; one drama each from the works of Lope de Vega, Calderon, Alarcon, and Moreto; collateral reading and reports. Prerequisite: A grade of C in Spanish D or permission from the instructor.

Year course (3-3) (Offered in 1942-43)

104A-104B Spanish-American Literature

A survey of the whole field of Spanish-American literature during the colonial, revolutionary and modern periods. Lectures, class reports, collateral reading and reports. Prerequisite: A grade of C in Spanish D or permission from the instructor.

Year course (3-3) (Offered in 1940-41)

105A-105B Modern Spanish Drama

The development of the drama of Spain from the beginning of the nineteenth century to the present time. Prerequisite: A grade of C in Spanish D or permission from the instructor.

Year course (3-3)

A-110B Novel and Short Story in Spain **L. P. Brown**
 development of the novel and short story in Spain from 1830 to present time. Prerequisite: A grade of C in Spanish D or permission of the instructor.
3-3 (Offered in 1941-42)

Comprehensive Reading and Survey Course **The Staff**
 designed to fill up the gaps in the reading done in courses. Class meets once a week for guidance, reports, and quizzes. Required of all students majoring in Spanish.
3-3

GEOGRAPHY

Upper division preparation for the liberal arts major in geography: Geography 1, 2, 3, and Geology 1A-1B. Recommended: A reading knowledge of French or German.

Liberal arts major (upper division): Twenty-four units of upper division work in geography or 18 units in geography and six units in related subjects arranged in consultation with the chairman of the department.

LOWER DIVISION COURSES

Introduction to Geography: Elements **Post, Storm**
 nature of maps; weather and the climates of the world; land forms and their associated soils, with reference to their climatic relation; the oceans and their coasts. Open to all students.
3-3 and Spring (3)

Introduction to Geography; Natural and Cultural Regions **Post, Storm**
 regional differentiation of the world by human activity; areal bases of economy and nationality. Prerequisite: Geography 1.
3-3 and Spring (3)

Elementary Meteorology **Blake**
 elementary study of the earth's atmosphere and changes in it which influence our weather and influence human affairs. Special attention given to local conditions, instruments, and records.
3-3 and Spring (3)

Geography of California **Storm**
 main physiographic regions of California and the cultural landscapes developed by the successive cultural groups. Prerequisite: Geography 1.
3-3 and Spring (2)

Regions: Advanced **Post**
 selected regions from Africa, Australia, Oceania, and Polar Areas. Prerequisite: Geography 1 and 2.
3-3 and Spring (2)

UPPER DIVISION COURSES

Geography of Latin America **Post**
 natural continental geography. The natural regions of Latin America; occupational condition and historical evolution. Prerequisite: Geography 1.
3-3 and Spring (3)

117 Geography of Northern and Eastern Europe

A study of the cultural development of the countries of Northwest Europe in relation to physical background and resources. Prerequisite: Geography 1.

Fall (3)

118 Geography of the Mediterranean Area

A study of the cultural development of the countries of Southern Europe, Western Asia, and Northern Africa in relation to physical background and resources. Prerequisite: Geography 1.

Spring (3)

121 Geography of North America

The natural regions of North America, their formation and economic and historical development. Prerequisite: Geography 1.

Fall (3)

124 Geography of Asia

The cultural regions of Asia, their physical environment, and historical development. Prerequisite: Geography 1.

Spring (3)

135 Geography of the San Diego Area

Directed individual rural and urban field work of San Diego area including the mapping of a small area and its geographic interpretation. Prerequisites: Geography 1, 2, and Geology 1A. Open only to liberal arts geography majors.

Fall (2) (Offered in 1939-40 and alternate years)

141 Economic Geography

A world-wide survey of the raw materials of world trade; their production and distribution as related to the major geographic regions of the world. Prerequisites: Geography 1 and 2.

Fall (3)

GEOLOGY

Department requirement in Geology for liberal arts major in Physical Science includes in addition to Geology 1A-1B, the completion of: Chemistry 1A-1B, Mathematics 3A; Physics 1A-1B-1C-1D or 2A-2B; 3A. Students preparing for advanced work in Geology may substitute Engineering 21 for Mathematics 3A. Geology 2A may be substituted for Geology 1A in prerequisite requirements provided the additional necessary unit of laboratory work is completed.

French or German, Engineering 1A-1B and Geology 21A-21B are recommended.

LOWER DIVISION COURSES

1A Physical

The composition, origin, and distribution of earth materials, and their modification through mechanical and chemical processes of change. Ten lectures and one three-hour laboratory period weekly with related study during the semester. (Not open to students who have had Geology 2A except for one unit upon the completion of the laboratory section.)

Fall (4)

Historical

Brooks

ories of earth origin, and the evolutionary history of the earth as
eed through rock and fossil records. Consideration of the geologic
story of selected regions. Three lectures and one three-hour laboratory
riod weekly, with arrangement for field study and conference during
e semester. Prerequisite: Geology 1A or equivalent.
ring (4)

General

Brooks

imilar to Geology 1A but *without* laboratory. Open to all students
ept physical science majors or those already presenting credit in
ology 1A. Two lectures and one demonstration and discussion hour
ekly.

ll and Spring (3)

Physiography

Brooks

study of the surface features of the earth with classification of the
riety of land forms according to their cause and type. The fundamental
aning of scenery, with frequent illustration from local conditions and
on the college collection of topographic maps. Two lectures and one
ecussion hour weekly. Prerequisite: Geology 1A or 2A.

ring (3) (Offered in 1940-41 and alternate years)

A-21B Mineralogy

Brooks

udy of the common minerals and rocks. Use of the blowpipe and
aple chemical reagents but with emphasis upon sight determination.
erequisite: Geology 1A and high school chemistry, or equivalents.

ar course (3-3) (Offered in 1939-40 and alternate years)

UPPER DIVISION COURSES

1 Structural Geology

Brooks

e evolution and description of the structural and topographical features
the earth. Faulting, folding, and orogenic forces with practical
istrations from the North American Continent and emphasis on Cali-
nia geologic conditions. Lectures, discussions, and occasional field
ps. Prerequisite: Geology 1A-1B.

ll (3) (Offered in 1940-41 and alternate years)

1 Geologic Problems

Brooks

econnaissance of adjacent areas with elementary mapping; or directed
iding and group discussion of California Geology; or selection and
eparation of materials for the museum collections. Prerequisite:
ology 1A-1B. Registration subject to approval of instructor.

ring (1-4)

GERMAN

(See Foreign Languages)

HEALTH AND PHYSICAL EDUCATION

(See Physical Education)

HEALTH EDUCATION

Health and Social Adjustment (Men)

C. E. Peterson

informational course in personal and community hygiene. A study of
ial hygiene and the hygienic principles of living. Speakers from the

County Medical Association on subjects of vital interest enrich the offerings of this course. It is especially desirable that this course be taken in the freshman year.

Fall and Spring (2)

2 Health and Social Adjustment (Women)

B. I. Stor

An informational course reviewing the principles underlying the improvement and preservation of personal and civic health. Social hygiene in its relations to the practical problems of young women and prospective homemakers. A detailed study of the laws and procedures in local civic health matters of particular interest to women. Required of all freshmen who are candidates for junior standing or the degree.

Fall and Spring (2)

90 Physiology of Reproduction (Women)

Hu

A course consisting of a series of lectures and discussion dealing with normal and abnormal physiology and anatomy of reproduction facts and frauds in sex hygiene, and related topics. Prerequisite: Sophomore standing.

Fall (1)

91 Physiology of Reproduction (Men)

Hu

A course similar to Health Education 90.

Spring (1)

151 Health Education

B. I. Stor

A course for teacher-training students which includes the study of the diseases, common physical defects, and health indices of school children; the detection and control of communicable diseases which may appear in the school; and the elements which underlie a health education program. Methods of presenting personal and group health to children of different ages. Hygiene of the schoolroom, such as seating, lighting and ventilation.

Fall and Spring (2)

191 Infant and Child Care (Women)

Bl

A course designed to prepare for more intelligent parenthood and consisting of lectures on prenatal preparation and prophylaxis, appraisal of the new born infant, the hospital period, breast feeding, artificial feeding, physical hygiene of infancy. Normal mental growth, normal physical growth, habit training, disease prevention, behavior problems, prevention of physical defects, the role of the physician and examination. Prerequisite: Health Education 90.

Spring (1)

HISTORY

Lower division preparation for the liberal arts major in history: History 4A-4B or 8A-8B, and either Political Science 1A-1B, 71A-71B or Economics 1A-1B. Both history courses are recommended for students planning to major in history. No student shall enroll in more than one lower division history course during a semester.

Upper division requirements for the liberal arts major: At least twenty-four units in upper division courses in history, to be arranged in consultation with the chairman of the department. The student must enroll

History 199 in his senior year. A reading knowledge of at least one foreign language is expected of history majors.

The history minor: from twelve to eighteen units of work in history is commended. At least half the work should be chosen from upper division courses.

LOWER DIVISION COURSES

14B History of Modern Europe **Lesley**
Development of European society and institutions from about 1500 A.D.
Prerequisite: History 199
Prerequisite course (3-3)

18B History of the Americas **Nasatir**
General survey of the history of the western hemisphere from the discovery to the present time. Emphasis on the process of planting European civilization in the new world, the international contest for the continents, the wars for independence, the development of the American republics, and their relations with each other and with the rest of the world. Based on H. E. Bolton's "Syllabus of the History of the Americas."
Prerequisite course (3-3)

UPPER DIVISION COURSES

A-111B Ancient History **Lesley**
Semester I—Social, economic, political and cultural development of the Greek states, with emphasis upon the growth of democracy, attempts at general union and imperialism, Hellenism.
Semester II—Roman history to the beginning of the medieval period; discussions of Roman imperialism and the main constitutional, economic and religious developments in the republic and empire.
Prerequisite course (3-3)

A-121B Medieval History **Osborn**
General survey of European political and cultural development between 500 and 1500 A.D., with special attention to intellectual tendencies and development of institutions which culminated in the emergence of modern Europe after 1500.
Prerequisite course (3-3) (Not offered in 1939-40)

The French Revolution and Napoleonic Era **Lesley**
Intensive study of the revolutionary period in Europe from 1789 to 1815.
Prerequisite course (3-3)

Europe Since the World War **Lesley**
Developments in Europe from 1919 to the present.
Prerequisite course (3-3)

A-146B Diplomatic History of Europe Since 1648 **Lesley**
Course centering around the four major European treaties, their background, drafting and results. First semester, the Treaties of Westphalia, Utrecht and Vienna. Second semester, the Treaty of Versailles.
Prerequisite course (3-3) (Not offered in 1939-40)

147 History of Modern France

Lesl

Intensive survey of the political and social development of France under the Third Republic, 1870 to the present. International and colonial problems of modern France will also be considered.

Fall (3) (Not offered in 1939-40)

148 History of Modern Germany

Lesl

Political, social and economic development of Germany after 1870, Empire and Republic. German post-war problems, imperialism, and the establishment of the Third Reich will receive special attention.

Spring (3) (Not offered in 1939-40)

151A-151B England Since the Norman Conquest

Nasa

A survey of political and constitutional development in England since 1066, stressing the transition from medieval to modern England, Tudor despotism, the struggle for self-government under the Stuarts, the rise and development of present-day political and social institutions.

Year course (3-3)

156A-156B History of British Expansion

Nasa

A study of the growth, development, and break-up of the older overseas empire: the beginnings of the newer empire after 1783; the rise, federation, and imperial relations of the British Commonwealth of Nations; the crown colony system; India under British rule; and British expansion in Africa and the Pacific; development of British mandates.

Year course (3-3) (Not offered in 1939-40)

161 South America Since Independence

Nasa

The republics of South America. Attention directed to the development of nationality in South America, the struggles for political stability, exploitation of resources, diplomatic and commercial relations with the United States, and other international problems of South America. Survey of present-day conditions, political, economic, and social.

Spring (3)

163 Mexico and the Caribbean Countries

Nasa

Same plan in general as outlined in History 161. Special attention to relations of the United States with these countries, and to the recent developments in Mexico.

Fall (3)

171A-171B The Rise of the American Nation

Leona

Semester I. English colonization in North America and the development of colonial institutions and politics. Semester II. The revolutionary movement and the Revolutionary War; the establishment of government under the Constitution to the close of the War of 1812.

(Not offered in 1939-40)

173A-173B The Expansion of the United States

Leona

The rise of Jacksonian Democracy; territorial expansion and the Mexican War; the slavery controversy; the Civil War, and reconstruction; growth and progress of the United States to the World War.

Year course (3-3)

9 Special Course for Advanced Students

Leonard

required of all students with a history major in the liberal arts curriculum and to be attended during the senior year. Other students may be admitted with the permission of the instructor.

ring (2)

JOURNALISM

for the curriculum in journalism see page 61.

for the profession of journalism introductory work in the fields of literature, history, political science, economics, social economics, the arts, etc., is recommended.

The aim in the specialized courses in journalism is to offer introductory training in the principles and practices of journalistic writing only after a solid foundation in correct speaking and writing of English has been laid. Practical training in news reporting and editing for student publications and for the daily press is emphasized.

LOWER DIVISION COURSES

51A-10B Contemporary Press

Swanson

Development of the American newspaper; comparison of American and foreign newspaper practices; display and treatment of news; press associations. Prerequisite to Journalism 51A-51B; open to general enrollment. Fall and Spring (1-1)

51B News Gathering and Reporting

Swanson

Study of news sources and types; practice in news writing; newspaper organization; excursions and special lectures. Course planned for sophomores who have had English 1B, with high school journalism or equivalents. Freshmen admitted by permission of instructor.

for course (3-3)

51B-53B Applied Journalism

Swanson

Credit earned for editorial or other staff work throughout a full semester in student publications such as *The Aztec*, *El Palenque*, *Del Sudoeste*. Fall and Spring (1 to 3-1 to 3)

UPPER DIVISION COURSES

51B-151B Newspaper Editing

Swanson

Study and practice in the editorial, headline writing and editing of newspaper copy; newspaper management.

Fall and Spring (1-1)

51B-153B Advanced Journalism Practice

Swanson

Upper division work of the same type as that in 53A-53B, but with advanced requirements.

Fall and Spring (1 to 3-1 to 3)

Note.—Not more than six units in all will be given for journalism practical student publications.

51B-153D Newspaper Practices

Swanson

Work on community publications, including county newspapers, under direction of the instructor.

Fall and Spring (2)

199 Special Course for Advanced Students

Swans

Open to seniors with sufficient journalistic background to satisfy the instructor.

Spring (2)

LIBRARY SCIENCE

10 Use of the Library

J. P. Sto

The chief object is to give a working knowledge of some of the resources of the library which every teacher and student should understand—the decimal classification, the card catalog, periodical indexes, and the most important reference books, together with some instruction in the preparation of bibliographies. The course will be a requirement of those added to the library's staff of student assistants, although it will not prepare a student to become a librarian.

Fall and Spring (1)

MATHEMATICS

Lower division preparation for the liberal arts major in mathematics: Mathematics 3A-3B, 8, 4A-4B with an average grade of C or better; Physics 1A-1B or 2A-2B. Two or more of the following are recommended: Astronomy 1, Economics 1A-1B, 2, French A-B, German A-B, Engineering 21, Surveying 1A.

Liberal arts major (upper division): Twenty-four units including at least eighteen in upper division mathematics, the others being selected from Chemistry 111A-111B, 144, Education 112, Physics 105A-105B, 112 and other approved courses. The major should be arranged in consultation with the chairman of the department and completed with a grade of C or better.

LOWER DIVISION COURSES

A, B, C, D, E, S, Introductory Mathematics Livingston, Wilkin

The courses A, B, C, D, and E are equivalent to those of the same name in the high school; S is an introductory course in the theory and use of the slide rule. Courses C and D are offered each semester, others infrequently. Prerequisites and units of credit are as indicated below.

A. Elementary Algebra (2).

B. Elementary Geometry (2).

C. Trigonometry (2 or 3). Prerequisites: Mathematics A, B, and D.

D. Intermediate Algebra (3). Prerequisite: Mathematics A.

E. Solid Geometry (2). Prerequisites: Mathematics A, B, and D.

S. Slide Rule (1). Prerequisites: Mathematics A, B, and D.

1 Elementary Analysis

Wilkin

A general course in calculus and related topics, with applications in several fields. Not ordinarily available for students who have taken calculus. Prerequisites: Mathematics A, B, and C, or equivalents, with recommended grades, or permission of instructor.

Spring (3)

3A-3B Analytic Geometry and Calculus

Livingston, C. E. Smith, Wal

Analytic geometry and differential calculus, together with an introduction to the integral calculus. Prerequisites: Trigonometry and intermediate

algebra in high school, with recommended grades, or permission of the department.

year course (3-3)

A-4B Intermediate Calculus

Gleason, Livingston

Integration, partial differentiation, infinite series and multiple integrals. Prerequisite: Mathematics 3A-3B. Solid geometry and college algebra are recommended.

year course (3-3)

College Algebra

Gleason, Livingston, Wilkinson

Complex numbers, determinants and elementary topics in theory of equations. Prerequisites: trigonometry and intermediate algebra in high school, or equivalent.

fall and Spring (2)

UPPER DIVISION COURSES

2 Selected Topics in Algebra

Gleason

Topics supplementary to those considered in Mathematics 8 and 111. Prerequisites: Mathematics 3A-3B and 8.

year course (3) (Offered in 1940-41 and alternate years)

4 History of Mathematics

Livingston

History of mathematics down to early modern times. Prerequisite: Mathematics 1 or 3A-3B.

year course (3) (Offered in 1939-40 and alternate years)

5 College Geometry

Livingston

Extension of the high school course in plane geometry, dealing largely with triangles and circles. Several new procedures, including inversion, are introduced. Prerequisite: Mathematics 3A.

year course (3) (Offered in 1940-41 and alternate years)

6 Projective Geometry

Livingston

Concurrence of lines, collinearity of points and other properties of figures altered by projections; construction and study of ellipses, hyperbolas and parabolas by means of projections. Prerequisites: Mathematics 3A.

year course (3) (Offered in 1939-40 and alternate years)

Theory of Equations

Gleason

General solutions of algebraic equations; approximate numerical solutions; applications. Prerequisites: Mathematics 3A-3B and 8.

year course (3) (Offered in 1940-41 and alternate years)

Analytic Geometry of Space

Gleason

Lines, lines, and quadric surfaces. Prerequisites: Mathematics 3A-3B and 8.

year course (3) (Offered in 1939-40 and alternate years)

Advanced Calculus

Livingston

Selected topics in advanced calculus, exclusive of differential equations. Prerequisite: Mathematics 4A-4B, or 4A with 4B taken concurrently.

year course (2 or 3) (Offered in 1940-41 and alternate years)

119 Differential Equations

Gleason

Ordinary differential equations of first and second order, with applications. Prerequisite: Mathematics 4B or permission of instructor.
Spring (2 or 3) (Offered in 1939-40 and alternate years)

140 Statistical Theory and Method

Statistical theory and method from the mathematical standpoint; applications in social and natural science. Prerequisites: Mathematics 4A-4; Economics 1A-1B and senior standing.
Spring (3) (Not offered in 1939-40)

199A-199B Special Study

The State

An opportunity is offered for advanced work in algebra, geometry and calculus; or for study of vector analysis, or theory of numbers. Adapted to the needs of individual students. Prerequisite: at least six units of upper division courses in mathematics with an average grade of C or senior standing; and permission of the instructor.
Fall or Spring (1 to 3, each semester)

MUSIC

Candidates for a teaching credential in music should refer to the statement "Admission to Teacher Training Curricula" on page 26 and to the other degree requirements on that page and those following. The curriculum for the A.B. Degree with a Special Secondary Credential in Music is on page 40.

Lower division preparation for the liberal arts major in music: Music 1B-1C-1D; 4A-4B; 4 units of Applied Music (study of voice or orchestral instrument); and Aesthetics 1A-1B.

Liberal arts major (upper division); twenty-four upper division units. These shall include Music 105A-105B; 106A; 107A; 119; 120; 121A; units of Applied Music; Aesthetics 102A-102B; and 4 units of music activity credit (Music 111, 112, 113, 115, or 126).

At least a C average in upper division music courses is necessary.

It is recommended that students in meeting degree requirements and choosing free electives, select from the following courses: English 56-56B; French A-B; German A-B; History 4A-4B; 146A-B; Physics 2A-2B.

LOWER DIVISION COURSES

1A Music Reading and Ear Training—Fundamentals of Music

L. D. Smith

The elements of music; scale construction; elementary music theory; drill in music reading both with syllables and with words; ear training; elementary music dictation. Basic course for all general elementary credential students. Music majors receive no credit.
Fall and Spring (2)

1B Music Reading and Ear Training—Musicianship

L. D. Smith

Tonal and rhythmic dictation; rhythmic writing; sight singing. Basic course for music majors and minors. Text—Smith and Krone: Fundamentals of Musicianship Book I. Prerequisite: Music 1A, or the equivalent. Students not able to pass the departmental entrance examination

the fundamentals of music will take 1A without credit in preparation of this course.

all (2)

-1D Advanced Music Reading and Ear Training **L. D. Smith**
original work in minor keys; modal scales; dissonant triads and seventh chords; interval feeling in all chords; rhythmic progression and elementary forms; rhythmic, melodic and harmonic dictation. Prerequisite: Music 1B.

four course (2-2)

String Instrument Class **Leib**
beginner's class in violin, viola, 'cello and string bass. Required of all music majors working for a Special Secondary credential unless this orchestral section is the major or minor field.

all and Spring (1)

Woodwind Instrument Class **Leib**
beginner's class in oboe, clarinet, flute and bassoon. Required of all music majors working for a Special Secondary credential unless this orchestral section is the major or minor field.

all and Spring (1)

-4B Elementary Harmony **Springston**
scale construction, intervals, by-tones and diatonic harmonies. Transposition and original composition in the simpler forms. Text—Alchin: Applied Harmony Vol. I. Prerequisite: Music 1A-1B, or the equivalent, and at least one year of piano study.

four course (3-3)

Brass Instrument Class **Leib**
beginner's class in trumpet, French horn, baritone, trombone and tuba. Required of all music majors working for a Special Secondary credential unless this orchestral section is the major or minor field.

all and Spring (1)

Music Materials for the Elementary School **L. D. Smith**
study of the song material in the state music texts and in the supplementary texts. Appreciation materials applicable to the elementary school. Required course for all general elementary credential students. Prerequisite: Music 1A.

all and Spring (3)

-8B Keyboard Harmony and Accompanying **Springston**
practical application of the principles of elementary harmony. Prerequisite: one year of piano study. At least one year of high school piano is desirable.

four course (2-2)

-B-C-D Women's Glee Club—Treble Clef **L. D. Smith**
entrance upon examination.

all and Spring (½-½)

-B-C-D Men's Glee Club **Springston**
entrance upon examination.

all and Spring (½-½)

13A-B-C-D Orchestra

Permission of the conductor required for membership.

Fall and Spring (1-1)

15A-B-C-D A Cappella Choir

L. D. Smith

Entrance upon examination.

Fall and Spring ($\frac{1}{2}$ - $\frac{1}{2}$)

***16A-B-C-D Individual Study of an Orchestral Instrument**

Fall and Spring (1-1)

***17A-B-C-D Individual Study of Voice**

Fall and Spring (1-1)

***18A-B-C-D Individual Study of Piano or Organ**

Prerequisite: The ability to play artistically hymns and folk songs of the type found in the Golden Book of Favorite Songs.

Fall and Spring (1-1)

20A-B-C-D Chorus

L. D. Smith

Open to anyone interested in singing standard choral works. No examination required.

Fall and Spring ($\frac{1}{2}$ - $\frac{1}{2}$)

26A-B-C-D Band

Permission of the conductor required for membership.

Fall and Spring (1-1)

27A-27B Music for Enjoyment

Spring

A course designed for students with little or no musical background. Lectures and discussions as a basis for intelligent listening to concert radio programs, and class presentation of recorded music. Not open to music majors and minors.

Year course (1-1)

28A-28B Beginning Piano

Spring

Fundamental playing and reading technics for the pianoforte. Emphasis upon playing by ear, and the development of interpretative ability. No credit for music majors and minors.

Year course (1-1)

UPPER DIVISION COURSES

103A-103B Chamber Music

String quintet and woodwind ensembles only. Permission of the instructor necessary for class membership.

Year course (1-1)

105A-105B Advanced Harmony and Composition

Spring

Study of the possible types of modulation and chromatic harmonies; continuation of harmonic analysis and original composition. Text: Allyn applied Harmony Vol. II. Prerequisite: Music 4A-4B.

Year course (3-3)

6A Counterpoint **Springston**
Study of the five species of counterpoint with practice in writing in such forms. Canon and two-part inventions. Application of contrapuntal style to modern composition. Prerequisite: Music 4A-4B.
Fall and Spring (2)

7A Form and Analysis **Springston**
Aural and visual analysis of music forms through a consideration of structure, harmonic content, and style. Prerequisite: Music 105A-105B.
Spring (2)

1A-B-C-D Women's Glee Club—Treble Clef **L. D. Smith**
Entrance upon examination.
Fall and Spring ($\frac{1}{2}$ - $\frac{1}{2}$) (A maximum of 2 units in glee club may be counted toward the A.B. degree)

2A-B-C-D Men's Glee Club **Springston**
Entrance by examination.
Fall and Spring ($\frac{1}{2}$ - $\frac{1}{2}$) (A maximum of 2 units in glee club may be counted toward the A.B. degree)

3A-B-C-D Orchestra **Leib**
Permission of the conductor required for membership.
Fall and Spring (1-1) (A maximum of 4 units in orchestra may be counted toward the A.B. degree)

4A-B-C-D A Cappella Choir **L. D. Smith**
Entrance by examination.
Fall and Spring ($\frac{1}{2}$ - $\frac{1}{2}$) (A maximum of 2 units in A Cappella choir may be counted toward the A.B. degree)

5A-B-C-D Advanced Individual Study of an Orchestral Instrument
Fall and Spring (1-1)

6A-B-C-D Advanced Individual Study of Voice
Fall and Spring (1-1)

7A-B-C-D Advanced Individual Study of Piano or Organ
Fall and Spring (1-1)

8A Instrumental Conducting **Leib**
Conducting and reading of orchestral scores.
Fall and Spring (1)

9A Vocal Conducting **L. D. Smith**
Theory of vocal conducting together with practical experience gained in directing the college chorus. Prerequisite: Music majors with senior standing.
Fall and Spring (1)

10A Instrumentation **Leib**
Arranging of music for full orchestra. Selected works of pupils to be performed by standard orchestras.
Spring (2)

See page 108, conditions under which credit may be given for music study under private instructors.

126A-B-C-D Band

Permission of the conductor required for membership.

Fall and Spring (1-1) (A maximum of 4 units in band may be counted toward the A.B. degree)

CONDITIONS UNDER WHICH CREDIT MAY BE GIVEN FOR MUSIC STUDY UNDER PRIVATE INSTRUCTORS

Credit may be allowed for private instruction in music under the following conditions:

1. The applicant for such credit must be a regularly enrolled student in the music department of the college.
2. The instructor giving such private work must be a regularly State-certificated teacher, or else be approved by the Music Department. All private work and the names of all such teachers must be registered in the office of the music department chairman at the beginning of the semester.
3. In the case of first semester private study, a placement examination conducted by the music department faculty at the beginning of the semester will show the status of the student at the beginning of his work.
4. Evidence that the standards of the Music Department have been met will be shown by an examination conducted by the music department faculty at the end of the semester.

PHILOSOPHY

LOWER DIVISION COURSES

5A Introduction to Philosophy

Steinmetz

The recurring problems of philosophy and the making of the modern mind.
Prerequisite: Sophomore standing, or consent of instructor.

Fall (3)

5B Knowledge and Society

Steinmetz

Scientific method and the persistent problems of philosophy in their bearing upon the social problems of the day. Prerequisite: Philosophy 5A, except that sophomores planning to major in natural science may be admitted without prerequisite.

Spring (3)

UPPER DIVISION COURSES

105B Knowledge and Society

Steinmetz

Same as Philosophy 5B, except that upper division students will be held to more exacting contribution.

Spring (3)

120 Reflective Thinking

Steinmetz

Analysis of fallacies, and the logic of argument and proof; also examination of reflective procedures in various fields of knowledge, and review of some psychological descriptions of thought. Prerequisites: Psychology and Philosophy 5A.

Spring (3) (Offered in 1940-41 and alternate years)

the meaning of morality; motives and sources of belief, aspiration, ideal; psychological and sociological factors; representative ethical systems; relation of ethics to other axiological studies.

Spring (3) (Offered in 1939-40 and alternate years)

PHYSICAL EDUCATION

Men's Department

Candidates for a teaching credential in physical education should refer to the statement "Admission to Teacher Training Curricula" on page 26. In the teacher training curriculum in physical education see page 43.

LOWER DIVISION COURSES

A two-hour activity course each semester is required for the two years of the lower division. A medical examination is given each student when entering and the work is fitted, as far as possible, to his needs. The content of the required two years is planned to give each student an opportunity to choose those sports which have carry-over value into after college. Opportunity is given all students to take part in the regular competitive sports program.

All lower division students are required to take one-half unit of physical education not including intercollegiate sports.

1-1B Freshman Activity

One-semester course, beginning either Fall or Spring ($(\frac{1}{2}-\frac{1}{2})$)

1-1D Sophomore Activity

One-semester course, beginning either Fall or Spring ($(\frac{1}{2}-\frac{1}{2})$)

Class sections are so arranged that the student may choose the activity which is most desirous of learning. Fundamentals of the sports listed are taught during the class hour.

A-B-C-D Golf Spring ($\frac{1}{2}$)

A-B-C-D Track Spring ($\frac{1}{2}$)

A-B-C-D Baseball Spring ($\frac{1}{2}$)

A-B-C-D Basketball Spring ($\frac{1}{2}$)

A-B-C-D Tennis Fall and Spring ($\frac{1}{2}$)

A-B-C-D Boxing Fall and Spring ($\frac{1}{2}$)

A-B-C-D Wrestling Fall and Spring ($\frac{1}{2}$)

A-B-C-D Fall Track Fall ($\frac{1}{2}$)

A-B-C-D Swimming Spring ($\frac{1}{2}$)

A-B-C-D Fencing Fall and Spring ($\frac{1}{2}$)

A-B-C-D American football (Fall ($\frac{1}{2}$))

A-Y-Z Spring football Spring ($\frac{1}{2}$)

A-B-C-D Gymnastics Spring ($\frac{1}{2}$)

A-B-C-D Badminton Spring ($\frac{1}{2}$)

The following courses fulfill degree requirements for physical education majors and meet State requirements for teaching credentials in physical education.

30 Emergencies

C. R. Smith

The accepted procedure in meeting the emergencies which daily arise in the schoolroom, play or athletic field, beach, mountains, or any of the many places where the physical director is called on for first aid. Special attention given to the arrangement of the apparatus and the activities so that many of the most common accidents are prevented or minimized.

Fall (1)

53 Physical Education in the Elementary School

Schwartz

The content of the State program in physical education forms the basis of the course. Two lectures, two one-hour laboratory periods per week. May be taken as a substitute for 1D.

Required of all candidates for the elementary school credential and the special credential in physical education.

Fall and Spring (2½)

62A Gymnastic Activities

C. E. Peters

Theoretical and practical work in marching, free exercises, and light and heavy apparatus. Emphasis on progression and method of presentation of material. The simplest and most explanatory terminology.

Fall (2) (Offered in 1939-40 and alternate years)

62B Gymnastic Activities

C. E. Peters

Acquisition of proficiency in the performance of a great group of gymnastic stunts always popular in the gymnasium and on the playground. Work of the recreational or self-interesting type rather than the formal. Tumbling, stunts, and pyramid-building given chief attention, although games of low organization are also considered.

Spring (2) (Offered in 1939-40 and alternate years)

66 Playing Rules of Modern Games

Gross, C. R. Smith

Thorough study of latest rules of modern major and minor sports.

Fall and Spring (1)

72 Principles of Physical Education

Callahan

Cultivation of a favorable attitude for a professional study of physical education. Ideals and aims of physical education and the relation of physical education to school and society stressed.

Fall (2)

154 Organization and Administration of Physical Education

Gross

Material presented in Physical Education 53 plus general and special problems that confront physical education departments in junior and senior high schools and in colleges. Prerequisite: Physical Education 53.

Spring (3)

155 Applied Anatomy

C. E. Peters

Mechanics of the human skeletal and muscular systems and their action in games, formalized activities, and general body movements; mechanical strength and durability as influenced by anatomical factors.

Spring (2) (Offered in 1939-40 and alternate years)

5A Sports Methods

Gross, C. R. Smith

different theories and methods of teaching the more highly organized sports: basketball and baseball.

ing (2) (Offered in 1940-41 and alternate years)

5B Sports Methods

Calland, C. E. Peterson

Methods of teaching those sports most adaptable to intramural and interschool competition: golf, handball, soccer, speedball, volley ball, badminton, tennis and track.

ing (2) (Offered in 1940-41 and alternate years)

Folk Dancing

Schwob

Practice in folk and clog dancing. Methods of presentation, study of costumes and customs related to the dance. Notebooks required. Open to all upper division men and women.

ing (2) (Offered in 1939-40 and alternate years)

Technique of Officiating

Gross

Review of material presented in Physical Education 66. Methods of officiating all the sports common to the school or college program; also methods of training student officials. Practice in the handling of elementary, junior high, senior high and intramural college competition.

ing (2)

Physiology of Exercise

Bennett

Non-laboratory course emphasizing the relation of physiology to muscular exercise in physical activities. Prerequisite: Zoology 20 or the equivalent.

ing (2) (Offered in 1940-41 and alternate years)

Technique of Teaching Activities

Physical Education Staff

Selected leadership in activities. A course preliminary to practice teaching in which students are given opportunity to develop leadership teaching technique.

ing and Fall (1-2)

Recreational Leadership

Shafer

Fundamentals of recreational leadership developed by instruction in outcraft, Camp Fire lore, Girl Reserve activities, the study of school recreational needs and facilities, and of civic recreation. Open to all upper division men. Recommended to students interested in the recreational aspects of social service.

ing (2) (Offered in 1940-41 and alternate years)

Theory of Coaching Football

Calland

Methods of coaching football. Details of teaching individual fundamentals, offensive and defensive team play, strategy, and conditioning of athletes. Two hours of lecture and three hours of laboratory.

ing (2)

WOMEN

Women's Department Candidates for a teaching credential in physical education should refer to the statement "Admission to Teacher Training Curricula" on page 26, and to the outline for the A.B. Degree and Special Credential in Physical Education on pages 45 and 46.

LOWER DIVISION COURSES

Two hours weekly of directed physical activity are required in the freshman and sophomore years. Freshmen students must take 1A and either 1B or 1C. All sophomore students must elect $\frac{1}{2}$ unit of activity each semester.

1A Fundamental Skills

Benr

Practice in efficient fundamental body movements. Required of all freshmen.

Fall and Spring ($\frac{1}{2}$)

1B Folk Dancing or

1C Rhythmic Skills

Benr

Fundamental movements, simple dance forms and improvisation. Required of all Freshmen. Both 1B and 1C required of all women candidates for the special credential in physical education.

Fall and Spring ($\frac{1}{2}$)

Sophomores may elect from the following: Physical Education S

2A-B Folk Dancing

3A-B-C-D Natural Dancing

4A-B Social Dancing

5A-B Archery

6A-B Badminton

7A-B Golf

8A-B-C-D Seasonal Sports

9A Stunts and Tumbling

10A-B-C Swimming and Life Saving

11A-B Tennis

Any of the above activities may be taken for additional credit.

51 Safety Education

Benr

Prevention of accidents; practical application of first aid methods leading to American Red Cross First Aid Certificate.

Fall (1) (Offered in 1938-39 and alternate years)

53 Physical Education in the Elementary School

Schv

The content of the State program in physical education forms the basis of the course. Two lectures, two one-hour laboratory periods per week. Required of all candidates for the elementary school credential and special credential in physical education.

Fall and Spring ($2\frac{1}{2}$)

SPORTS

The individual activities, swimming, tennis, golf, archery, badminton and dancing are offered through the year. Candidates for the special credential in physical education select *one* as a major activity and two others as minors. Skills in the activities thus selected must be maintained as prerequisite to the senior course, physical education 185. (see page 114)

The seasonal group sports are volley ball, basketball, hockey, speedball or soccer, and baseball. Candidates for the special credential in physical education must participate in at least *two seasons of each*.

The Women's Athletic Association sponsors the intramural sports program. Under its direction competition in dual and group games is promoted throughout the year. Open to all college women.

UPPER DIVISION COURSES

Open to all Women. Required of women candidates for the special credential in physical education.

3 Administration of Secondary Physical Education Schwob
Study of administrative problems applied to high school situation including organization of instructional and recreational programs, classification of students, and routine administration.
Offering (2) (Offered in 1938-39 and alternate years)

5 Applied Anatomy C. E. Peterson
Mechanics of the human skeletal and muscular-systems and their actions in games, formalized activities, and general body movements; mechanical strength and durability as influenced by anatomical factors.
Offering (2)

7A-157B Sports Methods Shafer
Practice for skill, study of rules, and of coaching methods. Prerequisite: one season's experience in at least four of the following sports: volley ball, basketball, hockey, speedball, soccer, baseball.
Offering (2-2)

1 Principles of Teaching Gymnastics Schwob
Gymnastic materials and methods followed by practice in teaching marching, gymnastics and use of apparatus.
Offering (2) (Offered in 1939-40 and alternate years)

Folk Dancing Schwob
Practice in folk and clog dancing. Methods of presentation, study of tunes and customs related to the dance. Notebooks required. Open to all upper division men and women.
Offering (2) (Offered in 1939-40 and alternate years)

A-B Advanced Dancing Schwob
Prerequisite: Physical Education 1C or 3A, or equivalent.
Offering (2-2) (Offered in 1938-39 and alternate years)

168 Physiology of Exercise

Benn

A non-laboratory course emphasizing the relation of physiology to muscular exercise in physical activities. Prerequisite: Zoology 20 or equivalent.

Spring (2) (Offered in 1940-41 and alternate years)

169 Technique of Teaching Activities

Schw

Observation, lesson planning and teaching in college classes.

Fall and Spring (3)

170 Recreational Leadership

Sha

Fundamentals of recreational leadership developed by instruction in Scoutcraft, Camp Fire lore, Girl Reserve activities, the study of school recreational needs and facilities, and of civic recreation. Open to all upper division women. Recommended to students interested in the recreational aspects of social service.

Spring (2) (Offered in 1940-41 and alternate years)

173 Principles of Physical Education

Schw

A study of the more significant influences shaping the trend of physical education in the past and present. General philosophy and principles of physical education and its relation to general education.

Fall (2) (Offered in 1940-41 and alternate years)

177 Individual Program Adaptations

Schw

Adjustments of the physical education program to the physical needs and capacities of individuals: problems concerning protective and preventive measures which are not highly specialized corrective phases.

Spring (2) (Offered in 1940-41 and alternate years)

185 Technique of Individual Sports

Sha

A course summarizing rules, teaching methods, and individual playability. A required senior course. Can not be taken until all requirements regarding sports and games have been fulfilled. (See page 11)

Fall (1)

PHYSICAL SCIENCE

Lower division preparation for the liberal arts major in physical science and for the junior certificate: Fulfillment of the departmental requirements for upper division work in at least two of the following sciences: Astronomy, chemistry, geology, and physics. Recommended: A reading knowledge of French and German.

Liberal arts major (upper division) in physical science, required: Twenty-four units of upper division work in two or more of the physical sciences: Chemistry, geology, and physics, with a minimum of six units in each two of these sciences.

LOWER DIVISION COURSE

1 Introductory

M

A survey course dealing with the nature of man's physical universe. The subject matter covered includes work in fields of astronomy, chemistry, geology and physics; chosen to provide a background for present-day physical science thought. Not open to students who have taken higher

school or college physics and chemistry or either of these subjects combined with astronomy or geology.

Fall and Spring (3)

PHYSICS

Lower division preparation for the liberal arts major in physics and for the junior certificate: Physics 1A-1B-1C-1D; Chemistry 1A-1B; Mathematics 3A-3B and 4A-4B, or their equivalents. Recommended: A reading knowledge of French and German.

Liberal arts major (upper division) in physics, required: Twenty-four units of upper division work in physics including Physics 105A-105B and 107A-107B. Six of the twenty-four units may be elected in related subjects on consultation with the chairman of the department.

LOWER DIVISION COURSES

1A-1B General; Mechanics and Heat **Moe, L. E. Smith**

Mechanics, properties of matter, and heat. A development of the fundamental ideas which underlie the subject of physics, and the application of them in the discussion of practical problems. Lectures, text assignments, problem sets, and experimental laboratory work. Two lectures, and one laboratory period each week. Prerequisites: High school physics or chemistry, and trigonometry. Students deficient in any part of this requirement may enroll only with the permission of the instructor.

Year course (3-3)

1C-1D General; Electricity, Magnetism, Sound, and Light **Baird**

Continuation of Physics 1A-1B for students in the sophomore year. Two lectures and one laboratory period each week.

Year course (3-3)

2A-2B General **Baird**

Properties of matter, mechanics, heat, sound, light, electricity, and magnetism. A nonengineering course. Lectures, demonstrations, and discussions. Prerequisite: Two years of high school mathematics.

Year course (3-3)

3A-3B Physical Measurements **L. E. Smith**

Laboratory work in mechanics, properties of matter, heat, sound, light, electricity, and magnetism. Usually taken in conjunction with Physics 1A-2B.

Year course (1-1)

UPPER DIVISION COURSES

105A-105B Analytical Mechanics **Moe**

Treatment of fundamental principles of statics, kinematics and dynamics of particles and rigid bodies. Prerequisites: Physics 1A-1B or 2A-2B and a working knowledge of calculus.

Year course (3-3) (Offered in 1940-41 and alternate years)

106 Optics **Baird**

Refraction, color, interference, diffraction, polarization, radiation, and optical instruments. Prerequisite: Eight units in physics.

Fall (3) (Offered in 1940-41 and alternate years)

107A-107B Electrical Measurements

Baird

Devoted mainly to the study of potentiometer methods, capacity, inductance, resistance, and magnetic flux. Two lectures and one laboratory period each week. Prerequisite: Eight units in physics.

Year course (3-3) (Offered in 1939-40 and alternate years)

108 Modern

Baird

An introductory survey of the problems of modern physics. Theories of atomic structure and series in optical spectra, radioactivity, conduction of electricity through gases, radiation and the quantum theory. Prerequisite: Eight units in physics.

Spring (3) (Offered in 1940-41 and alternate years)

112 Advanced Heat

M

Thermal properties of matter. An introduction to the kinetic theory of gases and the laws of thermodynamics. Prerequisites: Eight units in physics and a working knowledge of calculus.

Spring (3) (Offered in 1939-40 and alternate years)

114 Wave Motion and Sound

M

A study of wave motion and its applications to sound production and transmission. The principles of musical instruments and architectural acoustics. Prerequisite: Eight units in physics.

Fall (3) (Offered in 1939-40 and alternate years)

199 Special Study

Baird, M

Reading or work on special problems in physics. Admission by consent of the instructor. Credit and hours to be arranged in each case. Open to students who have completed at least eight units of work in the department with grade of A or B.

Fall and Spring (1 or 2—1 or 2)

POLITICAL SCIENCE

The minor in political science: from twelve to eighteen units of work recommended. At least half the work should be chosen from upper division courses.

It is suggested that students who expect to major in political science place their lower division work to include both Political Science 1A-1B and 71A-71B, and either Economics 1A-1B or History 4A-4B.

LOWER DIVISION COURSES

1A-1B Comparative Government

Leonard

A comparative study of typical governments. Semester I: England, France, and Switzerland. Semester II: Italy, Germany, Russia, and Japan.

Year course (3-3)

71A-71B American Government and Politics

Osborne

71A—Governmental organization in the United States; the federal system, organization, powers and functions of the legislative, executive and judicial branches of the national government, and the expansion of its activities.

1B—Development of the means of democratic control of government in the United States; the history, motivation, methods and control of political parties; party machines; election systems; influence of minority groups; the lobby; the press.

This course is not open to freshmen.

Year course (3-3)

UPPER DIVISION COURSES

11 American Institutions

Leonard

Study of the principles of the Constitution of the United States, and a survey of the political and social institutions which have developed under it.

All candidates for the bachelor's degree are required by state law to secure credit in this course, unless they have completed one of the following courses: History 171A-171B, 173A-173B, Political Science 113, 175A-175B. This course is offered only in the fall semester.

Enrollment is limited to students of junior or senior standing, except with the consent of the instructor.

Year course (2)

11 Theory of the State

Leonard

The nature of the State, its organization and activities, and its relation to the individual and to other states. Special attention will be given to recent developments in the field of political thought.

Year course (3) (Not offered in 1939-40)

13 American Political Ideals

Leonard

Underlying theories and principles of American governmental policy.

Year course (3) (Not offered in 1939-40)

16A-136B Problems of the Pacific Area

Osborn

Particular emphasis during the first semester on the development through the 19th Century of the governmental problems of the Far East, both internal and international. The second semester will be devoted to a consideration of the 20th Century aspects of these problems.

Year course (3-3)

1 Theories of International Relations

Osborn

The development of ideas concerning international relations from ancient through modern times. Theories of nationalism, imperialism, internationalism, and cosmopolitanism will be reviewed and their validity considered in the light of modern experience.

Year course (3)

2 International Organization

Osborn

Prewar attempts at international organization, the effect of the World War on ideas of international relationships, postwar attempts at organization. Special attention will be given to the organization and development of the League of Nations, its machinery, accomplishments and failures, and to national attitudes toward cooperation since the war.

Year course (3)

143A-143B Principles of Public Administration in the United States

Osborn

A study of the development of executive agencies in the American federal government and the relationship between these agencies and the changes in American concepts concerning the proper field of governmental activity.

Year course (3-3)

175A-175B American Constitutional Development

Leonard

A study of the work of the Convention of 1787, and of significant phases of American constitutional law.

Year course (3-3)

PSYCHOLOGY

Lower division preparation in psychology for advanced work and junior certificate. Required: Psychology 1A-1B, Zoology 1A-1B, or Biological Science 10A-10B, Philosophy 5A-5B. Recommended: French, German, chemistry, physics, and anthropology.

LOWER DIVISION COURSES

1A General

Stearns

An elementary survey of normal adult psychology, focused upon personality; the subjective and objective aspects of behavior. Furnishes basis for all other courses in psychology. Prerequisite: Sophomore standing.

Fall and Spring (3)

1B General

Burlingame

A continuation of general psychology designed to familiarize the student with (1) elementary experimental methods, (2) famous experiments in psychology, and (3) some one topic (not included in upper division courses) in which he pursues an independent experimental approach. Prerequisite: Psychology 1A.

Spring (3)

4A Applied

Applications of psychology to problems of the individual in learning, making social adjustments, choosing a vocation, developing desirable personality traits, and achieving success and happiness. Survey of psychology as applied in education, music, art, speaking, writing, law and medicine. Prerequisite: Psychology 1A. Recommended: Psychology 1B.

Fall (2)

4B Psychology Applied in Business

Applications of psychology to a wide range of problems encountered by the man in business. Motives, attitudes, habits, and traits in their relation to behavior of employer, employee, and executive. Advertising, salesmanship, and problems of selecting, placing and increasing the efficiency of employees. Business cycles, and business research. Prerequisite: Psychology 1A. Recommended: Psychology 1B and Psychology 4A.

Spring (2)

UPPER DIVISION COURSES

102 Genetic (Growth and Development of the Child)

Burlingame, Steinmetz

The mental and physical growth and development of the child, especially with relation to norms of structure and function. Diagnosis of individual

children by comparison with norms. Behavior problems and the growth of personality traits as conditioned by physical and mental factors. An intensive study of one child presenting a problem of physical or mental maladjustment made by each student. Prerequisite: Psychology 1A. Recommended: Psychology 1B.

Fall and Spring (3)

5 Mental Testing

Burlingame

Brief history of intelligence testing and the fundamental assumptions underlying the construction of tests. The Stanford revision of the Binet-Simon test illustrated by demonstrations. Each student required to give at least 20 individual tests. Group intelligence tests discussed and demonstrated. Prerequisites: Psychology 1A and Education 108. Recommended: Psychology 1B, 102, Education 140.

Fall (3)

6 Mental Hygiene

Barbour

Problems, personality adjustment, emotional problems, attitudes, contacts, neurotic behavior, conduct disorders of both child and adult.

The beginnings of undesirable attitudes and habits and methods of treatment; these are stressed more than serious cases of maladjustment which are either incurable or problems for a psychiatrist. The methods of building wholesome personality are emphasized more than the analysis of extreme disorders. Prerequisite: Psychology 1A. Recommended: Psychology 1B, 102.

Fall and Spring (3)

7 Social Psychology

Steinmetz

Personality as it develops in relation to social environment. Suggestion, imitation, leadership, the crowd, public opinion, social control, prejudice, propaganda, sex differences, race differences, etc. Prerequisite: Psychology 1A. Recommended: Psychology 4A.

Spring (3)

8 Abnormal Psychology

Steinmetz

The relation of psychology to the psycho-neurosis and insanity; the appearance of abnormal traits in incipient stages of mental disturbances. Methods of diagnosis and early treatment.

Fall (3)

9 Experimental Psychology of Learning.

Burlingame

Introduction to instrumental and comparative psychology and to methods of research in the development of behavior theory. Prerequisite: 5 units of other work in the department and consent of the instructor; required of those seeking a major.

Spring (3)

SOCIAL SCIENCE

Upper division preparation for the liberal arts major in social science: fulfillment of the departmental requirements for upper division work in at least three of the following sciences: Anthropology, economics, geography, history, political science, social economics.

General arts major (upper division) in social science, required: Twenty units of upper division work including a concentration of twelve

upper division units in one of the following fields and six units in each of two others: Anthropology, economics, geography, history, political science, social economics.

LOWER DIVISION COURSES

1 Contemporary Political, Social and Economic Problems

Greer, Roger

An analysis of major problems of the present day with reference to conditions out of which they arise and with regard to their essential unity and interrelationships and an attempt to introduce the student to some methods of approach in dealing with these problems.

Fall and Spring (3)

SOCIAL ECONOMICS

LOWER DIVISION COURSES

50 General Sociology

A study of the nature and organization of human group activity, including the relation of cultural heritage to public opinion and social change. Previous preparation in biology and psychology recommended.

Fall and Spring (3)

55 Marriage and Family Life

F. Pe

A psychological and sociological approach to the problems of marriage and the family life. Content of the course reflects the expressed needs and desires of former students. Some of the topics considered are: romance and realism in love and marriage, emotional maturity and the approach to marriage, eugenic aspects of marriage, college marriages, harmony in modern marriage, economic adjustment in marriage, parenthood. Prerequisite: Health Education 1 or 2; a biological science and Psychology 1A recommended. Not open to freshmen.

Fall and Spring (3)

UPPER DIVISION COURSES

100 Science of Sociology

Hin

A critical analysis of social processes and products, of the methods of sociological investigation and of ultimate tests of social policies.

Fall (3)

101 Problems of the Modern Community

Hin

A study of the typical problems of the modern urban and rural community.

Spring (3)

103 Child Welfare

Donol

A study of the dependent, the neglected, and the handicapped child in relation to the various movements and agencies which have developed in efforts to cope with the problems presented by them.

Fall (2)

104 Field Studies

Donol

Exploratory library and field studies of the work of character-building and welfare agencies. Lectures, reading and field studies.

Spring (2)

9 Fields of Social Work

Worcester

many sided problems confronting the Social Worker, and the special efforts which have been developed to cope with these problems. Daily Case Work, Child Welfare, Probation and Delinquency, Psychiatric Social Work, Medical Social Work, Group Activities, Community Organization.

ension Division, Fall (2)

10 Industry and Social Work

Worcester

study of emergence of social problems, beginning with the Industrial Revolution, and continuing down to the present time. Child Labor, Men in Industry, Unemployment, Industrial Accidents and Diseases, Migration, and Tenement Housing are considered among the problems. Labor Movement, Social Legislation including programs for Social Insurance, Welfare Programs of Industry, Vocational Education, and others are viewed as attempted solutions of these problems.

ension Division, Fall (2)

11 Social Legislation

Worcester

study of the particular problems which have given rise to Social Legislation, both by the Federal Government and by the States. Emphasis is placed upon the actual practice of Social Work as determined by these laws.

ension Division, Spring (2)

12 Social Case Work

Worcester

study of the objectives, the underlying assumptions, and the techniques of Case Work, emphasizing the fundamental concepts which underlie "generic case work," and indicating the modifications which are essential to its adaptation to various fields. Case work is here presented as a developing process as it avails itself of the contributions of modern science, and attempts to meet the changing problems of our industrial life.

ension Division, Spring (2)

SOCIAL PSYCHOLOGY

(See Psychology)

SPANISH

(See Foreign Languages)

SPEECH ARTS

LOWER DIVISION COURSES

Fundamentals of Public Speaking

Johnson, Pfaff

training in fundamental processes of oral expression; methods of selecting and organizing material; outlining principles of attention and delivery; extemporaneous speaking and open forum debating; practice in construction and delivery of type forms of speech.

1 and Spring (3)

Extemporaneous Speaking (or Forum Speaking)

Pfaff

practice in extemporaneous speaking on subjects of current interest both national and local, with stress laid on the organization and delivery of pertinent material. Forum discussion will provide speakers with the

opportunity of assembling facts quickly to meet such questions as audience situation might demand.

Spring (3)

1C Oral Interpretation

The oral interpretation of longer literary selections, both in poetry and prose; a fundamentals course designed for the beginning students in drama as well as those majoring or minoring in English literature.

Fall (3)

1D Advanced Interpretation

Emphasis placed on stage poise and grace with adequate attention given to variations in the presentation of literary selections. Much opportunity is provided for individual and group creative work. No prerequisite. Class limited.

Spring (3)

20 Corrective Speech

Corrective laboratory training prescribed on the basis of vocalization test made on Electro-Vox Recording Machine. Required of education majors who fail to meet speech requirements test. Private clinical assistance given to stutterers and lispers.

Fall and Spring (1) (9 weeks' course)

55A-55B Dramatic Production

A course for first and second year students in which, through participation, they acquire an understanding of certain dramatic periods and types studied in English literature. Individual and group expression coordinated and developed in production of scenes, acts, and plays—a fundamental drama course emphasizing modern trends. No prerequisite.

Year course (3-3) Offered in 1939-40 and alternate years

55C-55D Dramatic Expression

A course designed to help first and second year students realize and develop their own abilities for expressing character and life. Coordination of thought, voice, and body, acquired through interpretation, impersonation, and acting of contemporary situations, creative and standard drama. History, technique, and use of dramatic expression studied. Informal participation by all. Best work given public performance. A fundamental course. No prerequisite.

Year course (3-3) (Offered in 1940-41 and alternate years)

60B Argumentation and Debate

Obtaining and organizing of evidence and the construction and use of the brief; study and discussion of current issues; the presentation of formal and informal debates. Attention to intramural and intercollegiate debating.

Spring (3)

UPPER DIVISION COURSES

110 Recreational Reading

See English, page 89.

152A Survey of Drama: Comedy

See English, page 91.

B Survey of Drama: Tragedy

Evans

English, page 91.

A-155B Advanced Dramatic Expression

Jones

Upper division students training for leadership in different fields as well as drama. More advanced forms of dramatic expression studied; creative abilities in interpretation, writing, acting, and stagecraft developed in relation to various subjects and activities conducted through individual research projects, group discussion and participation. Original work encouraged. Prerequisite: A fundamental drama course.

Four course (3-3) (Offered in 1939-40 and alternate years)

A-156B Advanced Dramatic Production

Jones

Study of more difficult dramatic types and periods in the production of poetic and prose literature of different countries. Arrangement, organization, creation, direction and presentation of class room, recreational and other forms of performances. Practical participation and demonstration. A course designed for students majoring in other subjects as well as the theater arts.

Four course (3-3) (Offered in 1940-41 and alternate years)

Rhythm, Pantomime and Choric Verse

Jones

Course planned for those desiring to engage in special drama activities, or to utilize the newer forms of dramatic expression.

One course (3)

Major Speech Disorders

Pfaff

Practical survey of newest methods of speech correction with special emphasis given to stammering and cleft-palate speech. One of required courses for Special Corrective Credential.

One course (3)

ZOOLOGY

(See Life Science)

FACULTY

For the Year 1938-39

WALTER R. HEPNER, Ed.D.—President.

IRVING E. OUTCALT, A.M.—Vice President; Professor of English

JOHN R. ADAMS, A.M.—Associate Professor of English.

GEORGIA C. AMSDEN—Associate Professor of Commerce.

VERA BELLE ARNOLD, M.A.—Training Supervisor; Instructor
Education.

J. W. AULT, M.A.—Dean of Education; Professor of Education.

GUINIVERE KOTTER BACON, M.A.—Training Supervisor; As-
sociate Professor of Education.

O. W. BAIRD, M.A.—Professor of Physics.

CLIFFORD H. BAKER, JR., M.A.—Instructor in Spanish and French

JAMES RICHMOND BARBOUR, Ph.D.—Principal of the Training
School; Assistant Professor of Education.

MURIEL BENNETT, M.A.—Instructor in Physical Education.

J. PHILIP BROMLEY, M.S.—Instructor in Commerce.

BAYLOR BROOKS, A.B.—Assistant Professor of Geology.

ELIZABETH McPIKE BROWN, Ph.D.—Assistant Professor
French.

LESLIE P. BROWN, Ph.D.—Professor of Spanish and French.

MILDRED BURLINGAME, Ph.D.—Assistant Professor of Psychology

LEO BLAKELEY CALLAND, M.S.—Associate Professor of Physical
Education.

ROY E. CAMERON, Ph.D.—Professor of Economics.

KATHERINE E. CORBETT, A.M.—Training Supervisor; Associate
Professor of Education.

JAMES ENSIGN CROUCH, M.S.—Assistant Professor of Biology.

Y CHESTER DEPUTY, Ph.D.—Associate Professor of Education.
 RENCE L. SMITH DICKHAUT, M.A.—Professor of English.
 RGE E. DOTSON, M.A.—Registrar and Director of Student Personnel; Assistant Professor.
 LA M. EVANS, Ph.D.—Instructor in English.
 N MORTIMER GLEASON, M.A.—Assistant Professor of Mathematics.
 OMAS H. GREER, Ph.D.—Instructor in Social Economics.
 RIS HUBBARD GROSS, A.B.—Director of Athletics; Associate Professor of Physical Education.
 E HAMANN, M.A.—Assistant Professor of Art.
 TH C. HAMMACK, A.B.—Training Supervisor; Associate Professor of Education.
 BELLA S. HAMMACK, M.A.—Training Supervisor; Assistant Professor of Education.
 OTHY R. HARVEY, M.A.—Assistant Professor of Botany.
 ERT D. HARWOOD, Ph.D.—Professor of Zoology.
 VELL E. HOUSER—Instructor in Art.
 RETT GEE JACKSON, A.B.—Associate Professor of Art.
 TLE ELIZABETH JOHNSON, Ph.D.—Professor of Biology.
 IL ELIZA JONES, M.L.—Assistant Professor of Speech Arts.
 PPH SUMNER KEENEY, Ph.D.—Assistant Professor of English.
 EVIEVE KELLY, A.M.—Assistant Professor of Sociology.
 IUS LEIB—Instructor in Instrumental Music.
 RLES B. LEONARD, Ph.D.—Professor of History.
 TS B. LESLEY, Ph.D.—Professor of History.
 RGE R. LIVINGSTON, M.A.—Associate Professor of Mathematics.
 ER ALLEN MESSNER, M.A.—Assistant Professor of Chemistry.
 LYN MILLER, Ph.D.—Dean of Women; Associate Professor.
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 JOHN PAUL STONE.....Head Librarian
 F. W. VAN HORNE.....Financial Secretary
 GEORGIA C. AMSDEN.....Faculty Secretary

BULLETIN AND ANNOUNCEMENT OF COURSES

VOLUME 28
NUMBER 2
JUNE, 1940

THE LIBRARY OF THE
JUN 28 1940
UNIVERSITY OF ILLINOIS

SAN DIEGO STATE COLLEGE
SAN DIEGO, CALIFORNIA



*A section of the Academic Building
with the Library Tower
in the background*

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CALENDAR 1940-1941

SUMMER SESSION, 1940

Term I, six weeks, June 17-July 26.

Term II, three weeks, July 29-August 17.

FALL SEMESTER, 1940-1941

- | | |
|---------------------------|---|
| September 2 | Applications for admission for the Fall semester must be filed on or before this date. |
| September 6, 7 | Entrance examinations for all entering Freshmen who have not previously taken these examinations. No Freshman will be granted admission until these examinations have been taken. |
| September 10 | Orientation Program for entering Freshmen. Attendance required. Program begins at 8:00 A.M. and lasts throughout the entire day. Pre-registration of Freshmen begins.
10:00-11:00 A.M. College Aptitude Test.—Required of all entering students.
1:00- 4:00 P. M. Fundamentals Tests.—Required for admission to Upper Division Teacher Training. Should be taken during Sophomore year when possible. |
| September 11 | Registration and payment of fees. |
| September 12 | Instruction begins—Late registration fee becomes effective. |
| November 11 | Armistice Day Holiday. |
| November 21, 22 | Thanksgiving Recess. |
| December 13 | Last day before Christmas Recess begins. |
| January 2 | Classwork resumes. |
| January 29-
February 5 | Mid-Year Examinations. |

SPRING SEMESTER, 1940-1941

January 27	Applications for admission for the Spring semester must be filed on or before this date.
February 10	Orientation Program for entering Freshmen. Attendance required. Program begins at 8:00 and lasts throughout the entire day. Pre-registration of Freshmen begins. 10:00-11:00 A.M. College Aptitude Test.—Required of all entering students. 1:00- 4:00 P. M. Fundamentals Tests.—Required for admission to Upper Division Teacher Training. Should be taken during Sophomore year when possible.
February 11	Registration and payment of fees.
February 12	Instruction begins—Late registration fee becomes effective.
April 11	Holiday—Good Friday.
April 27	Founder's Day.
May 30	Holiday.
June 5-June 12	Final Examinations.
June 13	Annual Commencement.

SUMMER SESSION, 1941

Term I, six weeks, June 23-August 1.

Term II, three weeks, August 4-August 23.

THE COLLEGE

Historical Sketch

The growth of the San Diego State College has involved three stages of development. It was known as the State Normal School of San Diego when it was established by legislative enactment in 1897 and opened its doors in 1898.

A second cycle of its growth began in 1921 when the legislature converted all California normal schools into State teachers colleges and the San Diego Junior College was merged with the teachers college. Lower division courses were then available in a single institution for the various types of students in the community. From 1927 to 1934, the junior college relationship was discontinued, and the teachers college continued the lower division offerings. These offerings were enriched when the junior college arrangements were resumed in September, 1934.

Four-year curricula, leading to an A.B. degree with a major in education, were established in 1923. The State Board of Education, at that time and subsequently, authorized the following teaching credentials, which are to be granted in connection with the degree: general elementary, general junior high school, general junior high-general elementary, special secondary in art, business education, music, and physical education, and speech arts. Presecondary curricula were first authorized by the State Board of Education in 1928 and major subjects were added from time to time until a total of sixteen was finally reached: chemistry, commerce, economics, education, English, geography, history, mathematics, music, physical science, physics, Romance languages, and science, speech arts and zoology.

In September, 1935, the college entered upon its third phase when it was, by legislative enactment, the San Diego State College. This change in status permitted the college to drop the requirement in education courses from the curricula previously known as presecondary and to convert them into liberal arts curricula leading to the A.B. degree with one of the sixteen majors enumerated above.

Location and Environment

Known as a winter resort with a mild but invigorating climate, San Diego has become equally famous for its cool summers. High cultural standards in art, music, literature and science create a stimulating environment for a college. Many of these advantages are to be found in the heritage resulting from the expositions of 1915-16 and 1935-36, including the buildings themselves, which portray the best types of Spanish colonial art and architecture. Housed in these buildings are the Fine Arts Gallery, exhibits in anthropology, natural history, and Mexican archaeology which are in many respects unsurpassed. The

outdoor organ, the Ford Bowl, and the horticultural gardens make Bal Park, in which all these facilities are located, world renowned. Scripps Institute of Oceanography, operated by the University of California at La Jolla, gives opportunity for important cooperation in biological sciences.

Buildings and Equipment

On February 1, 1931, the college was moved to the new campus, located one mile north of the city's principal east-west boulevard, El Camino Avenue. The buildings are of Spanish-Moorish architecture which is well suited to the landscape and climate of this region. They include the Academic Building, which houses lecture halls, classrooms and administrative offices; the Science Building; the Library, the Little Theatre, the Campus Elementary School; Scripps Cottage (a social club house for women students); the Cafe and Book Store; and the Physical Education Building, a structure with adequate facilities for both men and women. The gymnasium contains a very fine basketball floor with stands that can accommodate 1500 spectators. A fine concrete stadium, constructed on a natural site, has a seating capacity that is adequate for present needs. Ultimately it will accommodate approximately 45,000 people.

Facilities for the Training of Teachers

The college maintains a modern elementary school on the campus where it has developed an extensive program for the education of elementary school teachers. The classroom-laboratory plan which calls for the use of work-rooms, the library, and shops, affords unusual opportunities for the induction of students into teaching.

By arrangement with the San Diego City Schools, practice teaching is provided in the Euclid elementary school for one-half day throughout the semester, and a somewhat similar arrangement exists at the Woodhull and Wilson Junior High School for students who are preparing to teach junior high and special secondary school subjects. Students preparing to teach only special secondary school subjects may be assigned to one of the senior high schools.

The Library

The library facilities of this college are noteworthy for an institution of its size. The library consists of well over 60,000 volumes selected to meet the requirements of a modern educational institution. Seven professionally trained librarians are available to render assistance to students in their reading and reference work.

The Campus Elementary School Library, representing a collection of 90,000 volumes possesses equipment and building facilities that are unique.

Living Accommodations

The college does not maintain dormitories since nearly all of the students live with parents or guardians. Living arrangements for students whose homes are not in San Diego or within commuting distance are made through the offices of the Dean of Women or the Dean of Men. For women students are urged to live in the residence hall adjoining

campus. Careful consideration is given to study conditions, healthful living and adequate social opportunities. Room and board may be secured for as little as \$160.00 per semester, payable in four installments. Opportunities to reduce this figure by working a few hours each week are occasionally available. Reservations should be made in advance through the Office of the Dean of Women. Where students find other accommodations more desirable, written permission from parents must be secured and filed with the Dean of Women.

Student Life

A rich field of extra-curricular activities is available to the student throughout his college life. The student is urged to select these activities carefully in order that he may profit by these extra-class experiences without lowering his standards of scholarship. The *Student Handbook*, available at the time of registration, gives information concerning activities which include organizations in every department of the college, and opportunities for individual and group experience in the social, athletic, cultural, religious and governmental life of the campus.

Student Health Service

The Health Department is maintained for the protection and care of student health. A complete physical examination is required of each student upon admission to college. Careful attention is given to cases requiring remedial treatment or to cases in which a modification of study load or in the amount of participation in physical activities seems advisable.

A representative of the Health Department is available throughout the day for consultation and emergency treatment. Students who have been absent because of illness should receive clearance from the Health Department before returning to classes.

Placement Service

A Placement Office is maintained by the college, which serves as a clearing-house for part time and full time jobs. Employers notify this office of available openings in their organizations, and also turn to the office for information concerning graduates or nongraduates whom they are considering for employment.

Included in the services of the office are part time jobs of all types available in N. Y. A., teacher placements, and full time jobs in commerce and industry.

The service is free to students, who are invited to arrange for interviews with members of the placement staff if in need of assistance in finding work. Students who know of jobs in which they are not themselves interested are encouraged to notify the office of such vacancies.

See Mildred Robertson, the Placement Secretary, or one of the following persons, should be seen or called regarding vacancies or work applications:

Teacher Placement: Dr. Raymond C. Perry.

Commercial and Industrial Placement: Mrs. Frances Torbert.

N. Y. A.: Miss Betty Jeter.

Alumni Association

The college has an active Alumni Association. Since its reorganization in March, 1921, the association has steadily gained in membership. The annual Homecoming is an important event each year; other meetings take place on dates of important athletic contests. The association also sponsors the organization of Aztec clubs in various communities. Information concerning the association may be obtained by writing the secretary in care of the college.

FEES AND EXPENSES

Probable Expenses for One Semester

estimate of the expense of attendance for one semester is given below. estimate is made as to the cost of clothing, or other personal items, these figures vary with the demands of the individual. Laboratory expenses are additional.

A Partial Estimate of Expenses One Semester

	<i>Minimum</i>	<i>Maximum</i>
Fees and Deposits-----	\$ 20.00	\$ 27.50
Books -----	12.00	18.00
Board and Room-----	125.00	175.00
Incidentals:		
Transportation -----	10.00	20.00
Lunches (daily in cafe)-----	35.00	50.00
Organizations:	<i>Average</i>	
Fraternity		
Initiation and pin-----	\$16.50	\$25.00
Dues and Assessments-----	5.50	
Sorority		
Initiation and pin-----	16.00	25.00
Dues and Assessments-----	8.00	
Miscellaneous -----		5.00

Before enrolling in college, the student should possess sufficient resources to meet the minimum expenses for one semester. A limited amount of practical work in offices and in the library may be offered from time to time, but ordinarily it is not sufficiently remunerative to reduce expenses materially.

Cost of Fees and Deposits (Subject to Revision)

ENROLLMENT FEES AND DEPOSITS

PAYABLE AT TIME OF REGISTRATION

For all students:

Initiation:	
Resident students -----	\$6.50
Limited students (5 units or less)—per unit-----	2.50
Nonresident students—1st semester -----	75.00
2d and subsequent semesters-----	37.50

Auditors pay same fees as students enrolled for credit.
See page 18 for definition of residence for fee-paying purposes.

¹ Student activity fees	-----	\$0
Associated Students	-----	\$5.50
Associated men students or associated women students	-----	.50
General service deposit	-----	
By new students only (in addition to the above)		
Personnel examinations	-----	

DEPARTMENTAL FEES

PAYABLE DURING SIXTH WEEK OF SEMESTER

General service fee (paid by all students)	-----	\$0
Health	-----	\$0.50
Library	-----	.50

In addition, fees ranging from 50¢ to \$7.50 per course are charged on certain courses, a complete list of these being issued at registration time. A penalty of \$1.00 is charged for failure to pay at the required time.

MISCELLANEOUS FEES AND DEPOSITS

DEPOSITS PAYABLE BEFORE LABORATORY WORK IS STARTED

Chemistry (each course in Chemistry)	-----	\$0
Geology 21A-21B	-----	
Physics	-----	

FEES PAYABLE WHEN SERVICE IS RENDERED

Change of program	-----	
College Bulletin (free to prospective students)	-----	
Duplicate library card	-----	
Duplicate registration book	-----	
² Evaluation of record for advanced standing	-----	
Fundamentals test	-----	
Late filing of registration book	-----	
Late registration	-----	
Locker	-----	
Special examination	-----	
³ Transcript of record (1st copy free)	-----	

GRADUATION FEES

State Teaching Credentials (each credential)	-----	\$0
Elementary		
Elementary and Junior High		
Special secondary		
School administration		

The credential fee is collected through the college by post office money order made payable to the State Department of Education. This fee will be \$5.00 for students who have not resided in California one year previous to the date of their application.

¹ Paid by all students enrolled for more than 5 units.

² Paid by all students entering with advanced standing.

³ The 50-cent fee must accompany each application for a transcript of record. Ten cents will be charged for each duplicate of this record which accompanies the original.

ADMISSION AND REGISTRATION

General Admission Requirements

High school graduates and other applicants possessing equivalent preparatory instruction may be admitted to this college upon evidence of fitness to profit by college instruction, such fitness to be shown by previous scholastic records, evidence of good moral character and personal qualifications, and by satisfactory scores on tests which the college may require.

Admission of High School Graduates Candidates for admission may demonstrate their qualifications by satisfying two requirements: (1) All applicants must demonstrate readiness for college instruction by making satisfactory scores on such tests as the college may designate, and (2) they must present satisfactory evidence of previous scholarship.

Students will be granted *regular* status if they have earned recommended grades* in not less than 16 courses of one semester's duration in English, Social Science, Foreign Language, Mathematics, Natural Science, and related fields, during the tenth, eleventh, and twelfth years in high school. *Regular* students may enroll in either a degree curriculum or in one of the two-year curricula.

Students will be provisionally granted *regular* status if they have earned recommended grades* in not less than 12 courses of one semester's duration in English, Social Science, Foreign Language, Mathematics, Natural Science, and related fields, during the tenth, eleventh, and twelfth years in high school. If at the end of one semester they have maintained a scholarship average of C or better in not less than 12 units of work, they will retain their *regular* status. Failing to do this, they will be reclassified as two-year students, and required to enroll in a two-year curriculum.

Students who do not qualify for *regular* status must enroll in one of the two-year curricula. They must have earned recommended grades* in at least 12 courses of one semester's duration, completed during the tenth, eleventh, and twelfth years in high school. Individuals who fail to meet this standard may be admitted to the two-year curricula if their achievement on the entrance examinations indicates probable success in the courses.

Admission by Examination Certificates of successful examination before the College Entrance Examination Board will be accepted when candidates cannot meet the above scholarship requirements.

Admission with Advanced Standing Credit earned in recognized institutions of collegiate grade will be evaluated and advanced standing granted on the basis of the evidence submitted. Credit toward the fulfillment of graduation requirements will be allowed only in so far as the student has met the standards and requirements of this institution.

*Grades of A or B or the equivalent.

Applicants for advanced standing must show an average grade of C or better in all college work previously undertaken. No applicant may disregard his collegiate record and apply for admission with freshman standing.

Not more than sixty-four semester hours of junior college work may be allowed for credit.

Students who seek to gain admission with advanced standing must furnish complete transcripts of record for all work attempted beyond the eighth grade. A two dollar evaluation fee must accompany the application for admission.

Admission of Special Students. Applicants over twenty-one years of age, who are not high school graduates and who do not possess the equivalent preparation but who receive a satisfactory score on a standard college aptitude test, may be granted provisional admission as special students. Such persons may be granted full matriculation only upon the removal of all deficiencies and upon the completion of one year or semester of satisfactory college work in the chosen curriculum.

Registration

Registration for the fall semester of 1940-41 will take place on September 16, and for the spring semester on February 10. Candidates for admission may obtain an application blank from the Registrar who must be filed, with complete transcripts of record, two weeks before registration. *See calendar on page 7.*

The college year is divided into fall and spring semesters of eighteen weeks each, followed by a summer session consisting of terms of six and twelve weeks, respectively. Students may enter at the beginning of either semester or at the beginning of either of the summer terms.

The summer session meets the needs of regular students who wish to obtain credit toward the bachelor's degree, of teachers in service, and of students who wish to secure supplemental credit or to shorten the time for completion of their college course.

Tests Required at Registration Time and Later

1. A physical examination is required of all students upon entering college. Appointments for this examination are made during the orientation program.
2. All entering students are required to take the College Aptitude Test. Exceptions may be made for students who register for five units of college or less, for former graduates of this college, and for graduates of approved four-year colleges.
3. All entering students who are not transferring with advanced standing must take a High School Achievement Examination, a Reading Test, and a standard English Examination.
4. The Subject A Test (English Composition) is required of all entering students. English 11A must be taken by all students whose tests indicate that they are not qualified for English 1B, even though they may intend to enroll in English 1B. No student may enroll for his first

ester of attendance unless he has qualified for English 1B or is
elled in English 11A. Exceptions may be made for students transfer-
credit in English from other colleges.

Passing the Fundamentals Test in reading, spelling, arithmetic and
dwriting, and a Speech Test are prerequisites for admission to upper
sion courses in teacher training curricula. Students should take these
s at the beginning of their sophomore year in order that they may have
sufficient time to make up deficiencies, if any exist, before applying for
mission to the upper division of teacher training curricula. Exceptions
r be made for former graduates of this or other California State
ther training institutions who have been teachers in service.

Late Registration

A student who registers after the first week of the semester is subject to a
itation of his program. A fee of one dollar must be paid for registra-
a after the regular registration period and the instructor's approval
ust be secured for each course entered after the first week of the
semester.

Changes in Registration

itions for changes in program may be secured at the Registrar's office.
A statement regarding withdrawals from class is to be found on page 20.

Editors

Editors register in the usual way and pay the same fees as those who
registered for credit.

Loans and Scholarships

Scholarships for both men and women have been made available through
efforts of alumni, and civic organizations. Superiority in scholarship
a worthiness from the point of view of need are the standards upon
hich selection is based. Scholarship aid is therefore restricted for the
st part to students who have completed the lower division of the
ege.

h long and short term loans are available to students who have been
attendance for at least one year and who have given evidence of
ity to do satisfactory college work. Application for loans is made
the Committee on Loans and Scholarships through the offices of the
n of Men and Dean of Women.

GENERAL REGULATIONS

Officers for Consultation

Concerning the housing and living arrangements of students, personal problems, etc.—The Dean of Women; The Dean of Men.

Concerning the scheduling and arrangement for all student social affairs—The Dean of Women.

Concerning study lists and personal problems of *two-year* (Junior College) students—Dean of Junior College Guidance.

Concerning admission, program of studies, credits, degree requirements, etc.—The Registrar; The Dean of Liberal Arts; The Dean of Education.

Concerning health and physical condition—The Health Department.

Concerning student-body affairs, student-body policy—The executive officers of the student body, The Dean of Liberal Arts.

Concerning appointments to teaching positions and other types of full-time and part-time employment—The Placement Secretary.

Concerning admission to Upper Division Teacher Training Curriculum, practice teaching, credential requirements, etc.—The Dean of Education.

Concerning use of the buildings—The Dean of Women; The Dean of Men.

Concerning entrance requirements and offerings at other institutions—The Registrar; The Dean of Liberal Arts; The Dean of Education.

Residence

The law designates the residence of the father during his life, and at his death, the residence of the mother as the residence of a minor student. In case of legal separation or divorce, the minor's residence is the residence of the parent with whom he makes his home. When the student reaches twenty-one years of age he may declare his own residence.

Barring legal separation or divorce, the residence of the husband is the residence of the wife.

Classification

Full time students are those students who have complied with the requirements for admission and are registered in more than 5 units of work. Full-time students are expected to carry 12 units of work unless excused.

limited students are partial course students who, for adequate reasons, have been permitted to register for 5 units of work or fewer.

special students are mature students who have not satisfied all entrance requirements but who are registered for such courses as their ability and preparation qualify them to pursue. Special students may also be limited in units.

regular students are those who are qualified to enroll in curricula leading to the Bachelor of Arts degree.

honors-year students are those who are enrolled in one of the two-year honors or College curricula by choice or because they have failed to meet the scholarship standards required for *regular* status.

Units. For convenience in administration, students who have completed 29 units of work are classified as freshmen; 30 to 59 units as sophomores; 60 to 89 units as juniors; and more than 90 units as seniors.

Scholarship, Grades, and Grade Points

The following grades are used in reporting the standing of students at the end of each semester: *A*, excellent; *B*, good; *C*, fair; *D*, passed; *E*, conditional; *F*, failed; *I*, incomplete, and *W*, withdrawn.

Grade *E* is used to record work which is of low order but which may be made passable. If by the close of the next semester the work has been satisfactorily completed the grade *E* is changed to a *D*; otherwise it is changed automatically to an *F*. The grade *I* is used to record work of higher order but which is incomplete for some acceptable reason. Ordinarily, to change an *I* to another grade, the work must be completed in a year.

The points are assigned as follows: Grade *A*, 3 points per unit; *B*, 2 points per unit; *C*, 1 point per unit; *D*, no points; *E*, minus 1 point per unit; *F*, minus 1 point per unit. The number of grade points a student has earned in a subject is determined by multiplying the number of points he has received by the number of units allowed.

The grade point average is determined by taking the algebraic sum of the grade points earned and dividing by the number of units attempted. Subjects in which the student receives an *I* or a *W* grade are disregarded in computing grade point averages.

A student must earn at least a *C* average in all work undertaken at the college to qualify for a certificate in any curriculum, a diploma of graduation, or a transcript of record with recommendation to another collegiate institution.

Units of Work and Study-Lists Limits

One unit of credit represents approximately three hours of actual work per week throughout one semester. It represents one hour of lecture or recitation combined with two hours of preparation, or in the case of laboratory credit, three hours of laboratory or field work.

Sixteen units in addition to physical education ($16\frac{1}{2}$ units) constitute normal semester's program for all students. Entering students are permitted to enroll for more than 17 units,* and all other students are limited to 18 units.*

Even though a student has carried a heavier program, he may not normally apply more than 16 units* toward graduation. Certain exceptions to this rule exist where the student has successfully carried at least 16 units during the preceding semester: 1) 17 units* will be credited toward graduation if the student has maintained an average of not less than 2.0 grade points during that semester, and 2) 18 units* will be credited toward graduation if a grade point average of at least 2.0 has been maintained. Any course in which a student received a passing grade may be used in the satisfaction of course requirements, even though the credit for such a course is in excess of the units credited for graduation.

Credit for a program that does not conform to the above regulations may be obtained only through a petition addressed to the Scholarship Committee. No student will be permitted to register for less than 12 units without the approval of the Dean of Liberal Arts or the Dean of Education.

Probation and Disqualification

Probation Any student whose scholarship record shows a cumulative deficit of 12 or more grade points for all work undertaken in the college will be placed on probation. A limited student will be placed on probation if his cumulative deficit equals or exceeds the average number of units carried per semester. Probationary status may be continued until provided that the student does not add further toward his grade point deficiency.

Disqualification Any probational student whose scholarship falls below an average grade of *C* in any single semester is disqualified for further attendance at the college. A scholarship record below a *D* average in any single semester also disqualifies a student.

A disqualified student may be reinstated after an interval of one semester for reasons satisfactory to the Executive Committee. All applications for reinstatement must be in writing.

Withdrawals from Class

A student may obtain forms for withdrawal from class at the Registrar's Office. If a student withdraws from class for acceptable reasons during the first twelve weeks of a semester, a grade of *W* will be recorded upon his permanent record for those classes which he has dropped. If he withdraws during the last half of that twelve weeks period, a grade representing the level of work maintained up to the time of withdrawal will be recorded upon a supplementary record. If he withdraws from class during the last six weeks of the semester either an *I* or an *F* will be recorded upon his permanent record.

* In addition to physical education.

ents who withdraw from all classes during the course of a semester petition the Executive Committee at such time as they seek admission to the college.

Transcripts of Record

Students may secure one transcript of record without fee. Thereafter, requests for a transcript should be accompanied by a transcript fee of five cents. Once a student has matriculated in this institution, transcripts of record from other schools will not be returned or copies of them made.

Eligibility for Practice Teaching

A student shall be eligible for practice teaching (Education 116) who has not completed 75 units, been admitted to Teacher Training, and has an entire record, and also his record for the preceding semester, and whose average is not average at least a C grade.

Honors Group

Students who at the end of the Sophomore year have attained a grade-point average of 2.5, and such others as have attained a high average in the department in which their Major is selected, and who have received the recommendation of that department and the consent of the Committee on Honors, may if they so elect, constitute an honors group, for special treatment in their Major subject.

Students, so far as the facilities of the department and the best interests of the students under its charge allow, shall be treated as befits individual needs and as their individual capacities warrant. They shall be eligible to enroll in honors or special study courses, although the time in such courses shall be limited to 5 units a semester. They shall be held to regular attendance in the established courses of their department if, in the opinion of the instructor, the course requirements can be met through special assignments and examinations or by satisfactory performance in the regular examinations in the course. With the consent of the major department, requirements concerning minors and elective courses or sequences in the major may be set aside. Each honor student shall be assigned to a member of his Major department for advice and direction.

Students in the honors group who fail to take advantage of the opportunities there offered may at the end of any semester be transferred by the department to the general course. Students in the general course who show unusual capacity, upon recommendation of the department and the Committee on Honors, may at the end of any semester, be transferred to the honors group if such transfer appears practicable.

Students who wish to apply for entrance in the Honors Group may do so by filling out cards to be obtained from their major departments. Applications should be filed with the chairman of the major department not later than a week after registration opens. Units earned by students doing individual study under this plan will be recorded under symbol 166 and will be subject to the formulated rules dealing with variations of student load.

The Degree with Honors

Honors at graduation shall be granted to those students only who completed the major with distinction, and who have a general record satisfactory to the Committee on Honors.

Before Commencement each department shall determine, by such means as it may deem best (for example, by means of a comprehensive examination) which students it will recommend for honors at graduation, and report its recommendations to the Committee on Honors.

The Committee on Honors will consider departmental recommendations, confer with the several departments about doubtful cases, and transmit to the faculty its recommendations concerning the award of Honors.

Examinations

No final examinations shall be given to individual students before the regular time. Any student who finds it impossible to take a final examination on the date scheduled must make arrangements with the instructor to have an incomplete grade reported and must take the deferred examination not later than the end of the second semester following that in which the incomplete was given. No exceptions shall be made to this rule without the approval of a dean and the instructor concerned.

All final examinations shall be written in Official Examination Booklets or other forms which shall be furnished by the college and distributed by the instructor at the beginning of the examination period. No books or papers of any kind shall be brought into the examination room, except by special order of the instructor.

Students shall pay a special examination fee of fifty cents at the business office for every special examination given. The instructor shall give such examination only when the student presents a receipt showing that the fee has been paid.

Extension Courses

An extension program covering a wide range of offerings is made available each semester. Members of the regular college faculty and other persons expert in special fields instruct extension classes. The extension program is designed to serve the needs of San Diego and neighboring communities for courses on the college level that are not available on campus, or offered at times and places more convenient to special groups. Extension courses are considered the equivalent of campus courses in the amount of credit available to any one student in one semester. Credit through extension courses or a combination of campus and extension courses is subject to the same study-load limitations that apply to students regularly enrolled for campus courses. Fees for extension courses vary somewhat with the place where the instruction is offered, but shall not exceed \$6.00 per unit for the year 1940-1941.

Information concerning extension offerings is included in the special bulletin of extension courses which may be obtained on application to the Director of Extension Service.

The amount of credit for extension and correspondence courses accepted in fulfillment of the requirements for the Bachelor of Arts degree shall depend upon the nature of the courses, the quality of the work done, and the student's preparation for work in the field of the course. The college reserves the right to limit credit to such courses as have been approved, and the total of such acceptable credit to twelve units.

THE BACHELOR OF ARTS DEGREE

General Requirements for the Bachelor of Arts Degree

San Diego State College offers the following types of curricula leading to the A.B. Degree: (1) the curricula leading to the California teaching credentials, and (2) the Liberal Arts curricula. With slight variations in definition, many of the basic requirements are the same.

A minimum of 124 units of college work, representing a four-year course, is required for the Bachelor of Arts degree. Not less than 54 of these units must be completed in the junior and senior years. At least 30 units must be earned in this college, and not less than 24 of these residence units must be taken with the rank of senior. Not fewer than 12 units of this work must be completed during a single semester; or in lieu of that at least 16 units must be completed in not less than two consecutive summer sessions.

LOWER DIVISION

Subject Matter Requirements in the Lower Division

Physical Education	2 units
Health Education 1 or 2	2 units
English	6 units
Psychology	3 units
Foreign Language	15 units
Mathematics A and B, 4 units, or high school algebra and geometry	
Social Sciences	14 units
Natural Sciences	14 units
Year-course in foreign language or in mathematics, or in philosophy (This year-course is an additional requirement to those listed above)	6 units
Electives to make total of 64 units. ¹	

Explanation of Lower Division Requirements

English This requirement may be satisfied either in the freshman year or in the sophomore year. Courses are to be chosen from the following: English L1A, 1B, 1C, 2, 3, 30A, 30B, 52A, 52B, 56A, 56B.

Psychology Psychology 1A.

¹Not required in the teacher training curricula.
Electives should include lower division preparation for the major. See page 26. Requirements for the minors may be partially satisfied in the lower division. See page 26.

Foreign Languages At least 15 units in not more than two languages are required in the lower division, except that only 10 units in a modern language are required in the commerce major and no language is required in teacher training. Each year of acceptable high school work in a foreign language will be counted in satisfaction of 5 units of this requirement. Not less than two high school year-courses is acceptable in a language except Latin, in which a year-course is permissible.

Social Sciences¹ Fourteen units chosen from two or more departments are required in this field. All students must present credit for Social Science 1A or for an acceptable equivalent.

Additional lower division courses to meet the social science requirement must be chosen from the following list and all except teacher training students must include one of the year courses marked with an asterisk: Anthropology 50A-50B*, 54, 55; Economics 1A-1B*, 18A-18B; Geography 2; History 4A-4B*, 8A-8B*; Political Science 1A-1B*, 71A-71B*; Social Science 1B; Sociology 50A-50B*.

Two semesters of fourth year high school courses in the fields of history, political science, sociology, and economics taken with grades not lower than C may be used to satisfy three units of the social science requirement. A maximum of two units of the social science requirement may be chosen from upper division courses. High school senior courses have been used to satisfy the requirement, otherwise a maximum of five units may be counted.

Natural Sciences¹ Fourteen units chosen from courses representing each of the following groupings are required:

- (a) Biology 1 or a year course in high school or college biology, botany, physiology or zoology.
- (b) Physical Science 1A or 1B or a year course in high school or college chemistry or physics.
- (c) Additional lower division courses to meet the natural science requirement must come from the following list and must include one of the laboratory courses marked with an asterisk. *High School courses:* a maximum of two years (6 units) of third and fourth year courses in botany, chemistry,* physics,* physiology, zoology and advanced biology taken with grades not lower than C may be used to satisfy the natural science requirement. *College courses:* Astronomy 1, 9, 2; Biology 1, 10A-10B;* Botany 2*, 2B,* 4; Chemistry 1A,* 1B,* 2A-2B,* 7-8;* Geography 1 or 2 (only one course may be counted toward requirement); Geology 1A, 1B*, 2A, 2B; Physical Science 1A, 1B; Physics 2A-2B, 3A-3B,* 1A-1B,* 1C-1D;* Zoology 1A,* 1B.*

Two units of this requirement may be chosen from upper division courses.

Mathematics High school elementary algebra (or Mathematics A) and high school plane geometry (or Mathematics B).

¹ Teacher training students should follow carefully the curricular outline to meet specific course requirements in this field.

Additional Year Course In addition to the foregoing minimum requirements in foreign language and mathematics, 6 units must be chosen from each of the following groups by all except teacher training students.

Modern foreign language: Any two consecutive college courses, or any two consecutive high school year courses.

Latin: Two years of high school courses in Latin.

Mathematics: D, or C, or equivalent, and either 1, 3A, or 8. Students with the Commerce major may take Mathematics D, or equivalent, and Economics 2.

Philosophy: 5A-5B.

Lower Division Preparation for the Minor See description of requirements for liberal arts minors below and for teaching minors on page 29.

Lower Division Preparation for the Major See description of requirements for teaching majors on page 29. Specific requirements for the majors in the liberal arts curricula are listed in connection with the descriptive list of courses in each major field (see pages 69 to 139).

Specific Upper Division Requirements for the Liberal Arts Curricula

The liberal arts curricula lead to the bachelor of arts degree with major in art, chemistry, commerce, economics, English, geography, history, mathematics, music, physical science, physics, Romance languages, social science, speech arts, and zoology and qualify for graduate work in these fields in recognized American colleges and universities. Completion of the requirements of these curricula also enables the graduate to satisfy under-graduate requirements for the general secondary credential which, with graduate work, will enable the holder to teach in a senior high school or junior college.

The junior certificate will be granted on the completion of 64 units at the satisfaction of all lower division requirements.

UPPER DIVISION

Subject Matter Requirements

Political Science 101	2 units
First minor (minimum in upper division courses)	6 units
Second minor (minimum in upper division courses)	6 units
Major (upper division courses)	24 units

At least 40 units in upper division courses must be completed, 30 of which must be earned after all lower division requirements have been satisfied.

Explanation of Requirements

Political Science 101 Political Science 113 or 175A-175B or History 171A-171B or 173A-173B will be accepted as substitutes for this requirement.

Minor Minors must be established in at least two of the following fields: anthropology, art, botany, chemistry, economics, education, English, foreign language, geography, geology, history, mathematics, music, philosophy, physics, political science, psychology, sociology, speech arts, and zoology.

A minor consists of at least twelve units of work completed in one of the above fields of study. It is required that at least six of these units must be earned in upper division courses. The entire requirement for a minor may be met with upper division courses provided these courses have no lower division prerequisites. Prerequisites for each course are listed among the course descriptions on pages 69 to 139.

Minor in Education A student who desires to satisfy the undergraduate requirements for the general secondary teaching credential will minor in education. He should include in his program a major in a subject field of subjects usually taught in high school and a minor in the field of education. In order to conform to the usual university requirement, this minor should include Education 102A-102B (or Education 130, and Psychology 102).

Majors The specific requirements for each major are listed at the beginning of each departmental division among the description of courses (See pages 69 to 139.) The student is advised to choose his major early in his college course as practicable so that he may be able to plan

work according to the major requirements. Failure to meet the upper division requirements of the major department before the junior year may make it impossible to satisfy the upper division requirements within the normal period of two years.

Limited Electives

A total of not more than 12 units of limited and vocational courses listed below will be counted toward junior standing or the A.B. degree in Liberal Arts; Art L7, L14A; Accounting L15A, L15B, L16A, L16B, L165A, L165B; Business Economics L10A-L10B; Economics L129, L163; Education, all courses except those listed as available for credit toward a minor (see Education minor above); Engineering L22, L23; English A, L8; Journalism L53A, L53B, L153A, L153B; Library Science L117A; Merchandising, all courses; Music L1A, L2A, L3A, L6A, L7A, L116A-B-C-D, L17A-B-C-D, L18A-B-C-D, L28A-L28B, L116A-B-C-D, L17A-B-C-D, L118A-B-C-D; Physical Education, all courses beyond the requirements specified in the curricular patterns except 30, 51, 161, 164A, 164B, 170; Secretarial training, all courses. All courses which are required specifically to students taking two-year completion courses leading to the Associate of Arts degree are classified as limited electives. See definition of *Two-year students*, page 19.

Professional and Preprofessional Courses. See pages 64 to 68.

Specific Upper Division Requirements for the Teacher Training Curricula

Admission to the Teacher Training Curricula Admission to the college does not imply that the student will be admitted to the teacher training curriculum. No student intending to enroll in the teacher training curriculum may enroll in an upper division course in education before being admitted to teacher training. Any exception to this rule must have the written approval of the Dean of Education. Students who have been in regular attendance at the college should make application for admission to the teacher training curricula during the final semester of their sophomore year. Students who have completed three or more semesters of work in another college, upon transferring to San Diego State College, should make application as soon as they can meet the preliminary requirements. It will be advantageous for transfer students to present themselves for the necessary tests given during the orientation period preceding the enrollment in the college. The preliminary requirements which must be met before making application are:

1. A satisfactory score in a college aptitude test taken at the college. (See college calendar for date of test.)
2. Evidence of satisfactory ability in arithmetic, handwriting, reading and spelling indicated by having passed the fundamentals test. (See college calendar for date of test.)
3. Assurance of correct speech habits and voice control by having satisfactorily completed a course in corrective speech or by having passed a speech test given by the college.
4. Assurance of physical fitness by having passed a prescribed examination given by one of the college physicians.
5. If the student is to be a candidate for one of the special secondary credentials, he must furnish a recommendation from the chairman of that department stating that the student has ability and show promise of teaching success in his field and that the department looks with favor upon his application.
6. The completion of the first two years of a given curriculum, or its equivalent, with a scholarship grade of C or better.

After the student has submitted evidence of having met the preliminary requirements in his application for admission to the teacher training curricula he will be interviewed by the members of a committee appointed by the faculty for this purpose. In the appraisal of applicants the committee gives careful consideration to the following factors established by the State Board of Education: intelligence, scholarship, professional aptitude, personality and character, speech and language usage, and many-sided interests.

Advanced Standing in Teacher Training A maximum of 18 units in courses in education will be credited toward degree requirements in case such work was taken more than five years before entering upon the degree curriculum at this college (date of first work taken after an evaluation of record has been made, for students entering with advanced standing).

After an interval of five years, evaluations are subject to revision in the light of such new requirements as may have been put into effect and with respect to deduction in credit in education courses.

Students formerly in attendance will not be considered to be working in a degree curriculum until an evaluation and statement of credit has been secured from the registrar's office. All courses taken either at this college or elsewhere must be approved by an official adviser or the Registrar (for those taken elsewhere) in order to be credited toward meeting degree requirements.

Teaching Major Defined A teaching major consists of a minimum of twenty-four units in a field other than education, at least twelve of which must be in the upper division. A C average in scholarship is required in all upper division courses in the field of the teaching major. A major in a special secondary school credential varies from twenty-four to twenty units as specified in the requirements for the various curricula. Teaching majors may be established in the following fields: English, foreign languages, general science, mathematics and social sciences (anthropology, economics, geography, history, political science) and in the special secondary school credential fields of art, business education, music, physical education, and speech arts.

Teaching Major in English Candidates for the teaching major in the field of English are expected to show credit in English 1B or 1C and nine elective units of lower division work and in twelve units of upper division work. This credit must include 3 units in American Literature (either lower or upper division) and 3 units in Shakespeare.

Teaching Major in General Science Candidates for a teaching major in the field of general science are required to include in their programs a college year course in a biological science, a year course in high school or college physics and a concentration of twelve units, at least six of which are upper division, in one major subject (botany, chemistry, physics, zoology). *See definition of teaching majors.*

Teaching Major in Social Science Candidates for a teaching major in the field of the social sciences are required to include in their programs a college year course in modern history and a concentration of twelve units, at least six of which are upper division, in one major subject (economics, geography, history, political science). *See definition of teaching majors.* The following courses may not be applied to the teaching major in the field of the social sciences: Economics 14A-14B, 18A-18B, 140, 160A-161B, 161, 162, 163, 164, 165; and all courses in merchandising.

Teaching Minor Defined A teaching minor consists of twelve units in a given field, at least six of which must be in upper division courses. Teaching minors may be established in the following fields: art, business education, English, foreign language, general science, mathematics, music, social sciences (anthropology, economics, geography, history, political science), physical education and speech arts.

Teaching Minor in English Candidates for the teaching minor in English must show credit in English 1B or 1C and three elective units of lower division work; and in six elective units in upper division English. This credit must include three units in American literature, taken either in lower division or upper division. Credit in journalism and speech arts may not be used to fulfill the requirements for the English minor.

Teaching Minor in Music Candidates for the teaching minor in music are required to take music aptitude tests at the time the minor is chosen and enroll in at least one music activity each semester. In special cases the requirement may be waived by petition to the Music Department.

Applicants for music minors must maintain a grade average of *C* in music courses. To Music 1A and 7A, required for the elementary credential, the following twelve units are added for the music minor. In the lower division, with the proper regard for course sequences, six units may be chosen from the following courses: Music 1B-1C-1D; 2A; 3A-4A-4B; 6A, 8A-8B; 16; 17; 18; Aesthetics 1A-1B. In the upper division not less than six units may be chosen from the following courses: Music 103A-103B; 106A; 116; 117; 118; 121A; Aesthetics 102A-102B.

Teaching Minor in Physical Education Candidates for a teaching minor in physical education for women must show credit for Physical Education L1A, L1B, L1C, L9A, 51, L53, and one unit of sophomore activities; six units elected from Physical Education L157A, L157B, 161, L164, L164B and L170 in the upper division.

Candidates for a teaching minor in physical education for men must show credit for Physical Education L1A, L1B, L1C, L1D, L53, and L62A in the lower division; and six units elected from Physical Education L156, L156B, 161, L166, or L170 in the upper division.

Major and Minor Credential Requirements

1. **The junior high school credential:** A teaching major and a teaching minor *in subjects taught in a junior high school* are required. The combination of a special secondary school credential with the junior high school credential requires the completion of another teaching major than that required for a special secondary school credential.
2. **The elementary school credential:** Two teaching minors are required.
3. **A special secondary school credential:** The completion of the major in the special subject field (*see detailed outlines of curricular patterns for credentials*) and a teaching minor are required.
4. **Credit limitations:** The State Board of Education has placed a limitation of a maximum of forty units of credit in one subject matter field that may be applied toward the minimum of one hundred and twenty-four units required for the A.B. degree.

Preparation for Graduate Work Students who take the A.B. degree with only a special credential and who contemplate doing graduate work for a master's degree in an academic field at another institution of higher learning, will find it advantageous to use their electives to lay a foundation for that work. A student who plans to do graduate work in the field of his major is advised to so arrange his electives as to complete the equivalent of the liberal arts major to avoid the necessity of making up an undergraduate deficiency.

Political Science The course in Political Science 101 or its equivalent is required of all graduates of the college or those securing a teaching credential through the college. The following courses are accepted as equivalents: Political Science 113, 152 or 175A-175B; History 171, 171B or 173A-173B.

Upper Division Course Requirements At least 40 units in upper division courses must be completed, 30 of which must be earned after the lower division requirements have been satisfied.

Teacher Training Curricula and Teaching Credentials All Teacher Training Curricula leading to the Degree require a minimum of

ester units in education in addition to the general degree requirements previously listed.

The college offers curricula leading to the A.B. degree with the following teaching credentials:

- 1. **Elementary School Credential** authorizing the holder to teach any or all subjects in all grades of any elementary school in California.
- 2. **Junior High School Credential** authorizing the holder to teach any or all subjects in the seventh, eighth, and ninth grades of any elementary or secondary school in California. This credential will be issued only in combination with the elementary school credential, one of the special secondary credentials, or in combination with additional course requirements in the teaching major and in education as a preparation for graduate work for the general secondary credential. Candidates for the latter type of combination should consult the Dean of Education regarding requirements.
- 3. **Special Secondary Credential in Art** authorizing the holder to teach art subjects in any grade of the public schools of California.
- 4. **Special Secondary Credential in Business Education** authorizing the holder to teach commercial subjects in any grade of the public schools of California.
- 5. **Special Secondary Credential in Music** authorizing the holder to teach music in any grade of the public schools of California.
- 6. **Special Secondary Credential in Physical Education** authorizing the holder to teach physical education in any grade of the public schools of California.
- 7. **Special Secondary Credential in Speech Arts** authorizing the holder to teach public speaking, oral expression and dramatic art in the public schools of California.

The college offers the following credentials to persons meeting the qualifications designated for each:

Diploma of Graduation: A diploma of graduation carrying with it any of the credentials the college is authorized to grant, or any combination of them, may be granted to the holder of a bachelor's degree from an accredited college, upon the completion of a minimum of twenty-four units. Ordinarily at least one semester of residence during the academic year is required subsequent to securing the degree; the remainder of the work may be in summer session or, in the case of students who had attended the college prior to attaining a degree elsewhere, in credit earned as an upper division student. The candidate for a diploma must meet the equivalent of all of the requirements listed in the curriculum for the A.B. degree with the credential or credentials sought.

Administration and Supervision Credentials: Candidates desiring to qualify for administration and supervision credentials will meet the credential requirements as outlined in State Department of Education Bulletin No. 12, *Regulations Governing Granting of Credentials and Certificates for Public School Service in California*. Further information will be furnished by the college upon request by the applicant.

Combination of Credentials In the case of students seeking more than one teaching credential, the curriculum for each credential must be completed in full, with only such exceptions as are indicated in the requirements. For each credential in addition to one, at least twelve additional units of credit must be earned, this work to be in electives in nonprofessional fields only, after the basic curriculum requirements have been satisfied.

A combination of the elementary school credential with the junior high school credential may be secured by completing the requirements for the elementary school credential and the following additional requirements: (a) a teaching major; (b) Education 100A-100B; (c) a minimum of three units of practice teaching in a junior high school or the equivalent; (d) a course in Education 115B, *The Principles and Functions of Education*; (e) a total minimum of 136 units.

Limited Electives Credit for limited and vocational courses will be allowed in fulfillment of the requirements for the A.B. degree when they are required in any credential pattern completed by the student. A maximum of six units of credit in the following courses may be allowed to fulfill the requirements of any other credential pattern only after the student has received permission from the Dean of Education: Art L14A; Economics L10A, L10B, L15A, L15B, L16A, L16B, L65A, L65B, L129, L163; Engineering L22, L23; English L1A, L8; Journalism L153B, L153A, L153B; Library Science L10; Merchandising, all courses; Music L1A, L2A, L3A, L6A, L7A, L16A-B-C-D, L17A-B-C-D, L18A-B-C-D, L28A-L28B, L116A-B-C-D, L117A-B-C-D, L118A-B-C-D; Physical Education, all activity courses beyond the requirements specified in curriculum patterns; Secretarial Training, all courses.

All courses which are offered specifically to students taking two-year completion courses leading to the Associate of Arts degree are classified as limited electives.

Curricula Leading to Teaching Credentials

candidates in teacher training curricula should observe carefully the requirements for admission to teacher training and be prepared to meet them at the end of the sophomore year. Transfer students should meet the requirements as soon as possible after enrolling in the college. See college calendar for dates when the fundamentals test will be given and page 28 in this bulletin for requirements for admission to teacher training.

A.B. Degree With Elementary School Credential

First Semester—	FRESHMAN YEAR	Units
Biology 6A, Structure	-----	2
Biology 10A, ¹ Science of Life	-----	3
English L1A, ² or 1B ² or 1C, Freshman English	-----	3
Geography 1, Elements (Natural Science)	-----	3
Physical Education, Freshman Activities	-----	$\frac{1}{2}$
Health Education 1 or 2	-----	2
Electives ^{3, 4}	-----	2
Second Semester—		
Biology 10B, ¹ Science of Life	-----	3
English 1B, 2, 3, 30A, 30B, 52A, 52B, 56A, 56B	-----	3
Geography 2, Regions (Social Science)	-----	3
Music L1A, Music Reading and Ear-training	-----	2
Physical Education, Freshman Activities	-----	$\frac{1}{2}$
Electives ^{3, 4}	-----	5
		32
First Semester—	SOPHOMORE YEAR	
Biology 6B, Structure	-----	2
English (selected from 1B, 1C, 2, 3, 30A, 30B, 52A, 52B, 56A, 56B, unless taken in freshman year)	-----	3
Physical Education, Sophomore Activities	-----	$\frac{1}{2}$
Second Semester—		
Physical Education L53—Physical Education in the Elementary School	-----	$2\frac{1}{2}$
Third Semester—		
Chemistry 61A, Elementary Crafts	-----	2
Chemistry 61B, Elementary Crafts	-----	2
Music L7A, Music Materials for the Elementary Schools	-----	3
Geology 1A, General	-----	3
General Science 1A, Pol. Soc. and Econ. Problems	-----	3
Electives to meet requirements in Natural Science, Social Sciences, and minors ^{3, 4, 5}	-----	11-14
		32

Possible substitutions for the requirement in Biology 10A-10B:

. High school Biology (year course with laboratory work).

. Botany 2A-2B and Zoology 1A-1B—16 units.

. High school Botany and Zoology 1A-1B.

. High school Zoology and Botany 2A-2B.

. High school Botany and high school Zoology.

. Biology 1 and Physical Science 1—6 units.

Pending on result of Subject A test.

. Subject Matter Requirements in the Lower Division for total requirements in English, Natural Sciences, and Social Sciences.

. Unless minor is English, General Science or Social Sciences.

. 6 units in minor taken in freshman year, none needed in sophomore year.

JUNIOR YEAR

First Semester—

Education 102A, The Psychological Foundations of Education-----	U
Education L147, Education Practicum—Lower Levels-----	1

Second Semester—

Education 102B, The Psychological Foundations of Education-----	1
Education L148, Education Practicum—Upper Levels-----	3

SENIOR YEAR

Education L116, Practice Teaching ¹ -----	3
--	---

Either Semester—

Education 115 A, The Principles and Functions of Education-----	
Electives including two minors and political science requirement (for the year)-----	20

SUMMARY

Art 6A, 6B, 61A, 61B-----	4
Education 102A-102B, 115A, L116, L147, L148-----	4
English-----	1
Health Education 1 or 2-----	1
Music L1A, L7A-----	1
*Natural Sciences (incl. Biology 10A-10B and Geog. 1)-----	1
Physical Education L1A-B-C, L53-----	1
Political Science 101-----	1
Psychology 1A-----	1
*Social Sciences (including Social Science 1A and Geography 2)---	1
Electives, including two teaching minors-----	20

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¹ Candidates for the Elementary School Credential in combination with any other type of credential are required to do not less than 6 units of practice teaching in the elementary school.

* See page 24.

B. degree with Junior High School credential Note: The Junior High School credential will be issued only in combination with one of the other teaching credentials, or with the additional courses in Education and the major subject field required as preparation for graduate work and the general secondary credential. The latter combination requires the completion of a full academic major as specified by the Department instead of the teaching major which may be used only when this credential is used in combination with another.

First Semester—	Units
Biology 10A, ¹ Science of Life_____	3
English L1A, ² or 1B, ² or 1C_____	3
Geography 1, Elements (Natural Science)_____	3
Physical Education, Freshman Activities_____	$\frac{1}{2}$
Health Education 1 or 2_____	2
Electives, ³ includes major and minor ⁴ _____	4
Second Semester—	
Biology 10B, ¹ Science of Life_____	3
English 1B or 1C, 2, 3, 30A, 30B, 52A, 52B, 56A, 56B_____	3
Geography 2, Regions (Social Science)_____	3
Physical Education, Freshman Activities_____	$\frac{1}{2}$
Electives, ³ including major and minor ⁴ _____	7
	<hr/>
	32

First Semester—	SOPHOMORE YEAR
English (selected from 2, 3, 30A, 30B, 52A, 52B, 56A, 56B, unless taken in freshman year)_____	3
Physical Education, Sophomore Activities_____	$\frac{1}{2}$
Psychology 1A, General_____	3
Second Semester—	
Physical Education, Sophomore Activities_____	$\frac{1}{2}$
Third Semester—	
Social Science 1A, Pol., Soc. and Econ. Problems_____	3
Electives, ³ including major and minor ⁵ (for the year)_____	22-25
	<hr/>
	32

First Semester—	JUNIOR YEAR
Education L100A, ⁶ Methods and Materials of Instruction_____	3
Education 102A, The Psychological Foundations of Education_____	3
Political Science 101, American Institutions (or substitute)_____	2

1. Possible substitutions for the requirement in Biology 10A-10B:

1. High school Biology (year course with laboratory work).
 2. Botany 2A-2B and Zoology 1A-1B—16 units.
 3. High school Botany and Zoology 1A-1B.
 4. High school Zoology and Botany 2A-2B.
 5. High school Botany and high school Zoology.
 6. Biology 1 and Physical Science 1—6 units.
2. Depending on result of Subject A test.
3. See Subject Matter Requirements in the Lower Division for total requirements in English, Natural Sciences, and Social Sciences.
4. Unless minor is English, General Science or Social Science.
5. 6 units in minor taken in freshman year, none needed in sophomore year.
6. Not required if student is meeting requirements for elementary credential.

Second Semester—

Education L100B, Methods and Materials of Instruction-----	1
Education 102B, The Psychological Foundations of Education-----	1
Education L116, Practice Teaching-----	1

Either Semester—

Health Education 151-----	1
Electives, including major and minor (for the year)-----	1

SENIOR YEAR**First Semester—**

Education 115A, The Principles and Functions of Education-----	1
Education L116, Practice Teaching-----	1

Second Semester—

Education 115B, The Principles and Functions of Education-----	1
--	---

Either Semester—

Electives, including major and minor ¹ (for the year)-----	1
---	---

SUMMARY

Education L100A-L100B, 102A-102B, 115A-115B, L116-----	20
English-----	6
Health Education 1 or 2; 151-----	4
* Natural Sciences (including Biology 10A-10B and Geog. 1)-----	14
Physical Education-----	2
Political Science 101-----	2
Psychology 1A-----	2
* Social Sciences (including Social Science 1 and Geography 2)-----	14
Electives, including teaching major and minor-----	5

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¹ If 6 units in minor taken in junior year, none needed in senior year.
 * See page 24.

3. Degree With Special Credential in Art This course leads to the B. degree and to the Special Secondary Credential in Art which entitles the holder to teach art in senior high, junior high, and elementary schools.

LOWER DIVISION		Units
Aesthetics 50, History and Appreciation of Art-----		2
Art 6A-6B, Structure-----		4
Art 61A, 61B, Fine and Industrial Arts, Elementary Crafts-----		4
Education L19, Art in the Elementary School-----		2
English L1A, ¹ 1B, ¹ 1C, 2, 3, 30A, 30B, 52A, 52B, 56A, 56B-----		6
Health Education 1 or 2-----		2
Natural Sciences -----		8-14
Physical Education, Freshman and Sophomore Activities-----		2
Psychology 1A, General-----		3
Social Sciences (including Social Science 1A)-----		9-14
Electives, including additional art for major and courses for teaching minor ² -----		11-22
		<hr/> 64

UPPER DIVISION		
Aesthetics 150 -----		2
Art 106A-106B -----		4
Art 112A-112B -----		6
Art 152A (unless 52A was taken in lower division)-----		0-2
Art 195 -----		2
Art 116A -----		3
Electives in U. D. Art-----		3-5
Education L100A ³ -L100B, Methods and Materials of Instruction--		6
Education 102A-102B, The Psychological Foundations of Education		6
Education 115B, The Principles and Functions of Education-----		4
Education L116, Practice Teaching (4 units in special field)-----		6
Political Science 101, American Institutions (or substitute)-----		2
Electives, including additional art and teaching minor-----		12-14
		<hr/> 60

SUMMARY		
Aesthetics 50 and 150-----		4
Art major -----		40 ⁴
Education -----		22
English -----		6
Health Education 1 or 2-----		2
* Natural Sciences -----		14
Physical Education -----		2
Political Science 101, American Institutions-----		2
Psychology 1A -----		3
* Social Sciences (including Social Science 1A)-----		14
Electives, including teaching minor-----		15
		<hr/> 124

¹ Pending on result of Subject A test.
² Unless minor is English, General Science, or Social Science.
³ Not required if student is meeting requirements for elementary credential also.
⁴ Maximum credit allowable in art.
 See Subject Matter Requirements in the Lower Division.
 See page 24.

A.B. Degree With Special Credential in Business Education This course leads to the A.B. degree and to the Special Secondary Credential in Business Education, which entitles the holder to teach business subjects in senior high and junior high schools.

In addition to the following academic requirements, satisfactory evidence of one-half year, or 1000 hours of approved experience in the field named in the credential must be submitted. For the credentials in the General Business Subfield twelve semester hours of work above the requirements for a bachelor's degree may be offered in lieu of the six months of full-time experience. At least six semester hours of the twelve must be in business or economics.

Accounting and Secretarial Subfields

LOWER DIVISION		Units
Economics 1A-1B, Principles-----		6
Economics 14A-14B, Accounting-----		6
English L8, English in Business-----		3
Geography 10A-10B, Economic Geography-----		6
¹ Natural Science -----		8
Physical Education, Freshmen and Sophomore Activities-----		2
Health Education -----		2
Speech Arts 1A, Fundamentals of Public Speaking-----		3
Social Science 1A, Pol., Soc. and Econ. Problems-----		3
Psychology 1A, General-----		3
Secretarial Training 1A, Business Mathematics-----		1
Secretarial Training L1A-L1B, Typewriting -----		6
Secretarial Training L5A-L5B, Stenography -----		10
Secretarial Training L3A, Office Methods and Appliances-----		3
Electives -----		2
		64
UPPER DIVISION		
Economics 18A-18B, Commercial Law-----		6
Economics 100, or 102 or 111 or 123-----		3
Economics 121, Business Administration-----		3
Upper Division Accounting-----		6
Education L100A-L100B, Methods and Materials of Ed.-----		6
Education 102A-102B, The Psych. Foundations of Ed.-----		6
Education 115B, The Principles and Functions of Ed.-----		3
Education L116, Practice Teaching-----		6
Special Methods Courses as prescribed by major department-----		4
Political Science 101, American Institutions (or substitute)-----		2
Minor -----		6
Electives -----		9
		60

¹ See page 24. Students deficient in high school natural science will have to make up such deficiency in college. See subject matter requirements in the Lower Division.

By electing Merchandising L25, Salesmanship 2 units; Merchandising L26, Advertising 3 units; Merchandising L26, Applied Salesmanship; Economics 123, Marketing; the Merchandising Subfield may be added to the above authorization.

General Business Subfield

LOWER DIVISION		Units
Economics 1A-1B, Principles-----		6
Economics 2, Mathematics of Finance-----		3
Economics 14A-14B, Accounting-----		6
Economics 18A-18B, Commercial Law-----		6
Geography 10A-10B-----		6
Merchandising L26, Salesmanship-----		2
Merchandising L27, Advertising-----		3
Natural Sciences-----		8
Physical Education, Freshman and Sophomore Activities-----		2
Psychology 1A, General-----		3
Retarial Training LA, Business Mathematics-----		1
Retarial Training L1A-L1B, Typewriting-----		6
English L8, English in Business-----		3
Social Science 1A, Pol., Soc., and Econ. Problems-----		3
Speech Arts 1A, Fundamentals of Public Speaking-----		3
Electives, including Freshman English-----		3
		64

UPPER DIVISION		
Economics 100, Modern Economic Thought, or a course in Consumer Economics or Economics 102, Social Control and Economic Planning-----		3
Economics 121, Business Administration-----		3
Economics 135, Money and Banking-----		3
Economics 162-----		3
Education 100A-100B, Methods and Materials of Instruction-----		6
Education 102A-102B, The Psychological Foundations of Education-----		6
Education 115B, The Principles and Functions of Education-----		4
Education 116, Practice Teaching-----		6
Special Methods Courses as prescribed by major department-----		4
Economics 194-----		3
Health Ed. 1 or 2-----		2
Political Science 101, American Institutions (or substitute)-----		2
Electives (including a minimum of 5 units in the upper division, units of which must be in commerce)-----		15
		60

See page 24. Students deficient in high school natural science will have to make up such deficiency in college. See subject matter requirements in the Lower Division.

A.B. Degree With Special Credentials in Music Students intending to become applicants for this credential must show evidence of musical ability, before entering the course. They must be able to play artistically upon the piano, music of the grade of the simpler *Songs With Words* of Mendelssohn or else possess a corresponding degree of proficiency in voice or on an orchestral instrument. No credit is given music majors for the basic courses of Music L1A and Music L7A, but if deficiency exists in the field of general musicianship, the student will be required to take either or both of these courses without credit.

All music majors are required to enroll in two musical activities each semester. In special cases this requirement may be waived by petition to the Music Department.

All students are required to pass examinations in applied music. No credit is allowed to majors in voice or orchestral instruments for work in piano which is below the level of artistic hymn playing.

Applicants for the Special Secondary Credential in Music must maintain a grade average of *C* or better in music courses.

All students majoring in music are required to pass a comprehensive examination in this field during the senior year.

This course leads to the A.B. degree with a Special Secondary Credential in Music which will authorize the holder to teach music in the elementary, junior and senior high schools of the State.

A maximum of 40 units in Music may be used toward the A.B. degree. Of these 40 units a maximum of 3 may come from the field of musical activities: band, choir, chorus, glee clubs and orchestra.

FRESHMAN YEAR

First Semester—

English L1A,¹ 1B¹, or 1C-----
 Health Education 1 or 2-----
 History 4A or 8A-----
 Aesthetics 1A-----
 Music 1B-----
 Social Science 1A-----
 Music L18-----
 Physical Education-----

Second Semester—

English 1B, 1C, 2, 3, 30A, 30B, 52A, 52B, 56A, 56B-----
 Geography 1, Elements (Natural Science)-----
 History 4B or 8B-----
 Aesthetics 1B-----
 Music 1C-----
 Music L3A-----
 Music L18-----
 Physical Education-----

¹ Depending on result of Subject A test.

SOPHOMORE YEAR

First Semester—	Units
Music 4A -----	3
Music 1D -----	2
Music L18 -----	1
Natural Science -----	6
Geography 2, Regions -----	3
Music L2A -----	1
Physical Education -----	$\frac{1}{2}$
	<hr/>
	16 $\frac{1}{2}$
Second Semester—	
Music 4B -----	3
Psychology 1A -----	3
Natural Science -----	5
Music L18 -----	1
Education L17 -----	2
Physical Education -----	$\frac{1}{2}$
	<hr/>
	14 $\frac{1}{2}$

First Semester—	JUNIOR YEAR
Music L6A -----	1
Music 105A -----	3
Education L145 -----	2
Music L17 or L117 -----	1
Education 102A -----	3
Education L100A -----	3
Upper Division Minor -----	3
	<hr/>
	16
Second Semester—	
Political Science 101 -----	2
Music 105B -----	3
Music L117 -----	1
Education L100B -----	3
Education 102B -----	3
Upper Division Minor -----	3
	<hr/>
	15

First Semester—	SENIOR YEAR
Music 119 -----	1
Music 107A -----	2
Music L117 -----	1
Aesthetics 102A -----	2
Education L116, Practice Teaching -----	6
*Music Activities -----	2
	<hr/>
	14

See Subject Matter Requirement in the Lower Division.
 NOTE.—A maximum of 3 units is credited toward the special Secondary credential in Music for music activities carried on throughout the four year course. These activities: band, choir, glee clubs, chorus and orchestra are an integral part of the work of the course and each music major is expected to participate in at least two of these each semester unless excused by the Music Department.

Second Semester—

Music 121	-----	U
Music 106	-----	
Music 120	-----	
Music L117	-----	
Aesthetics 102B	-----	
Education 115B	-----	
Education L116, Practice Teaching	-----	
*Music Activities	-----	

SUMMARY

Health Education	-----	10
Aesthetics	-----	2
Education	-----	8
English	-----	20
Upper Division Minor	-----	6
Natural Science	-----	16
Music	-----	40
Social Science	-----	14
Psychology	-----	2
Physical Education	-----	2

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* NOTE.—A maximum of 3 units is credited toward the special Secondary credential in Music for music activities carried on throughout the four-year course. These activities, band, choir, glee clubs, chorus and orchestra are an integral part of the work of the course and each music major is expected to participate in at least two of these each semester unless excused by the Music Department.

Degree With Special Credential in Physical Education This
leads to the A.B. degree and to the Special Secondary Credential
Physical Education which entitles the holder to teach physical educa-
in senior high, junior high, and elementary schools.

MEN

LOWER DIVISION

Units

ogy 10A-10B, Science of Life (unless taken as a year course high school with at least a grade of B)	
or	
ogy 1A, General	4-6
ish L1A, ¹ 1B, ¹ 1C, 2, 3, 30A, 30B, 52A, 52B, 56A, 56B	6
th Education 1	2
Natural Sciences	5 or 7
Physical Education:	
1A-1B, L1C-1D	2
3A, Tennis	$\frac{1}{2}$
, Emergencies	1
3, Physical Education in the Elementary School	2 $\frac{1}{2}$
32A, L62B, Gymnastic Activities	4
36, Playing Rules of Modern Games	1
, Principles	2
ports and Athletics ²	2
chology 1A, General	3
Cross Swimming Test	$\frac{1}{2}$
Social Sciences, including Social Science 1A, Political, Social and Economic Problems	14
ch Arts 1A, Fundamentals of Public Speaking	3
ogy 20, Anatomy and Physiology	3
itives, including courses to meet minor requirements ³	6 $\frac{1}{2}$
	64

UPPER DIVISION

Education L100A-L100B, Methods and Materials of Instruction	6
Education 102A-102B, The Psychological Foundations of Education	6
Education 115B, The Principles and Functions of Education	4
Education L116, Practice Teaching	6
th Education 151	2
Physical Education: Choose four out of the six starred courses:	
154, Organ. and Admin. of Physical Education	2
155, Applied Anatomy	2
156A-156B, Sports Methods	4
61, Folk Dancing	2
166, Technique of Officiating	2
168, Physiology of Exercise	2
169, Technique of Teaching Activities	2
70, Recreational Leadership	2
180, Theory of Coaching Football	2
ports and Athletics ²	2

Depending on result of Subject A test.

on majoring in Physical Education must actively participate in at least
the sports each year.

less minor is English, General Science, or Social Science.

Subject Matter Requirements in the Lower Division.

MEN—Continued

UPPER DIVISION—Continued

Physical Education—Continued

Zoology 114A, Genetics-----
Political Science 101, American Institutions (or substitute)-----
Electives -----

SUMMARY

Education -----
English -----
Health Education -----
Speech Arts 1A-----
*Natural Science (including Biology 10A-10B or substitute and
Zoology 20) -----
Physical Education major-----
Political Science 101, American Institutions-----
Psychology -----
**Social Sciences (including Social Science 1A)-----
Zoology 114A -----
Electives, including teaching minor-----

* See page 24.

** See page 24.

WOMEN .

LOWER DIVISION

Units

hetics 1A, Survey of Music-----	2
ogy 10A-10B, Science of Life (unless taken as a year course in gh school with at least a grade of B)	
or	
ogy 1A, General-----	4-6
ish L1A, ¹ 1B, ¹ 1C, 2, 3, 30A, 30B, 52A, 52B, 56A, 56B-----	6
th Education 2-----	2
Natural Sciences -----	5-7
Physical Education :	
A, Fundamental Skills -----	$\frac{1}{2}$
B, Folk Dancing -----	$\frac{1}{2}$
C, Rhythmic Skills -----	$\frac{1}{2}$
IA, Social Dancing -----	$\frac{1}{2}$
IB, Archery -----	$\frac{1}{2}$
IA, Badminton -----	$\frac{1}{2}$
IA, Stunts and Tumbling -----	$\frac{1}{2}$
OC, Life Saving-----	$\frac{1}{2}$
IB, Tennis -----	$\frac{1}{2}$
1, Safety Education-----	1
3, Physical Education in the Elementary School-----	2 $\frac{1}{2}$
ports and Dancing-----	$\frac{1}{2}$
hology 1A, General-----	3
hology 50, General	
or	
ropology 54, Social-----	3
ial Sciences, including Soc. Science 1A-----	9
ch Arts -----	3
ogy 20 -----	3
itives, including teaching minor ² -----	13 $\frac{1}{2}$

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UPPER DIVISION

ation L100A-L100B, Methods and Materials of Instruction-----	6
ation 102A-102B, The Psychological Foundations of Education-----	6
ation 115B, The Principles and Functions of Education-----	4
ation L116, Practice Teaching-----	6
th Education 151-----	2
Physical Education :	
53, Administration of Secondary Physical Education-----	2
55, Applied Anatomy -----	2
57A-L157B, Sports Methods-----	4
60, Principles of Teaching Gymnastics-----	2
1, Folk Dancing -----	2
64A-164B, Advanced Dancing -----	4
68, Physiology of Exercise -----	2
Depending on result of Subject A test.	
ess minor subject is English, General Science, or Social Science.	
sen from L2A, L2B, L3A, L3B, L3C, L3D, L4B, L5A, L6A, L6B,	
, L8A, L8B, L8C, L8D, L10A, L10B, or L11A.	
Subject Matter Requirements in the Lower Division.	

WOMEN—Continued

UPPER DIVISION—Continued

Physical Education—Continued

L169, Technique of Teaching Activities	-----
L170, Recreational Leadership	-----
L173, Principles of Physical Education	-----
L177, Individual Program Adaptations	-----
L185, Techniques of Individual Sports	-----
Political Science 101, American Institutions (or substitute)	-----
Electives, including minor	-----

SUMMARY

Aesthetics	-----	
Education	-----	
English	-----	
Health Education	-----	
*Natural Sciences (including Biology 10A-10B or substitute, and Zoology 20)	-----	1
Physical Education major	-----	3
Psychology	-----	
*Social Sciences (including Social Science 1A and Sociology 50 or Anthropology 54 and Political Science 101)	-----	1
Speech Arts	-----	
Electives, including a teaching minor	-----	1

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* See page 24.

Degree with the Special Secondary Credential in Speech Arts
 credential will entitle the holder to teach public speaking, oral
 expression, and dramatic arts in the public schools of the state. Appli-
 cants for the credential must maintain a scholarship average of C or
 better in Speech Arts courses.

LOWER DIVISION		Units
Speech Arts 1A-1B or 1C-1D or 60	-----	6
Speech Arts 55A-55B or 55C-55D	-----	6
Natural Sciences	-----	14
Physical Sciences	-----	12
Lives and Minor	-----	10
Psychology 1A	-----	3
Health Education	-----	2
English L1A, 1B, or 1C and 3 units from 30A-30B, 52A-52B, 53A-56B	-----	6
Physical Education L1A, L1B, L1C and L3A or L11A	-----	2
Speech Arts 63A-63B	-----	1
Rhetorics 1A or 5	-----	2
		<hr/> 64

UPPER DIVISION		
Health Education 151	-----	2
Physical Education L100A-L100B	-----	6
Physical Education 102A-102B	-----	6
Physical Education 115B	-----	4
Physical Education L116	-----	6
Physical Science 101	-----	2
Teaching minor	-----	6
Speech Arts 155A-155B, 156A-156B	-----	12
Speech Arts 163	-----	3
Speech Arts 150	-----	2
Speech Arts 157A or 175	-----	3
Options to include 6 units from P. E. L164A or L12A; Speech Arts 157B; English 152A-152B; Eng. 110, 116B, 117A-B	-----	8
		<hr/> 60

Summary		
Rhetorics	-----	2
Physical Education	-----	22
English	-----	6
Health Education	-----	4
Natural Sciences	-----	14
Physical Education	-----	2
Psychology	-----	3
Physical Sciences (including Social Science 1A and Political Science 101)	-----	14
Speech Arts	-----	33
Options, including teaching minor	-----	24
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Special Credential in Correction of Speech Defects The credential is available to graduate students who have successfully completed years of teaching in any field. Specialized courses are required certification plus a total of 100 hours of clinical experience in the treatment of articulatory and nervous disorders of speech.

THE BACHELOR OF EDUCATION DEGREE

General Requirements

The Bachelor of Education Degree will be granted upon the successful completion of 124 semester hours of college or university work or the equivalent. Of this total requirement at least 106 semester hours of work must be completed in regular campus classes, extension classes, or in correspondence courses under college or university direction; and not to exceed eighteen semester hours of credit may be allowed for experiences or activities that can be evaluated as equivalent to regular academic work.

Residence Requirements

Twenty-four semester hours of work completed in the State Colleges of California will be accepted as satisfying residence requirements, provided that at least twelve units of this work has been completed at the San Joaquin State College subsequent to June 1, 1934, and provided that not more than six units of the remaining twelve may be taken in extension classes.

Purpose of the Degree

The establishment of this degree provides an opportunity for improving professional training of those teachers who are now in service and who do not meet the standards of training at present required of new teachers entering the teaching profession.

This degree is professional in character and is not intended to qualify graduates for graduate standing in the universities.

The following classes of teachers are eligible for candidacy for the Bachelor of Education Degree:

Graduates of the 2-year, 2½-year, or 3-year curricula of the California State colleges when these institutions were normal schools or teachers colleges, who have had five or more years of teaching experience.

Holders of California life diplomas or those who have taught five or more years in the public schools of California.

Nature of Work and Fields of Study

Candidates will take academic courses designed to strengthen them in the fields of knowledge in which their initial training is inadequate. Professional courses in education will be included to qualify candidates to teach the newer curricula by means of the newer methods. All work will as far as possible be provided in classes for mature and experienced teachers.

Each candidate for the Bachelor of Education Degree must include in the last 60 semester hours of credit earned a minimum of six semester hours in each of three of the following six fields of knowledge.

1. Professional courses
2. Social sciences
3. Natural science
4. Psychology and philosophy
5. Fine arts and literature
6. Physical education, hygiene, and recreation

Effective Dates of the Bachelor of Education Curriculum

The operation of this curriculum shall not extend beyond February 1, 1947. All applications for candidacy must be filed and at least six semester hours of work completed before February 1, 1942. All the requirements must be completed and the degree conferred prior to February 1, 1947.

Application for Candidacy

Anyone desiring to establish candidacy for this degree should secure an application blank from the Registrar's office. An evaluation of record cannot be made until the application blank has been entirely filled out and filed with complete transcripts of academic record. A two-dollar evaluation fee must accompany each application. Applications should be filed well in advance of the time of anticipated enrollment.

PROFESSIONAL AND PREPROFESSIONAL CURRICULA

Professional and preprofessional courses, ranging in length from two years to three and four years of collegiate work, are offered by this institution. The following curricular outlines meet typical requirements for admission to professional schools of law, medicine, dentistry, nursing, pharmacy, veterinary, social service, public service, journalism, agriculture, and engineering. The student may modify these suggested outlines of study when the peculiar requirements of the professional school of his choice make it seem advisable for him to do so.

The degree curricula in liberal arts may be modified to include the courses which follow. For a complete statement of the requirements for the junior certificate and the degree see pages 23 to 27.

Prelegal Curriculum

The entrance requirements of law colleges range from two years to three and four years of prelegal work. The lower division requirements of the liberal arts curricula should be met in full whether the curriculum extends over a period of two, three, or four years.

The following curriculum meets the recommendations of standard American law colleges for a broad and liberal education in those fields of human knowledge commonly involved in human affairs and those which have cultural and disciplinary values. For the majority of prelegal students a major in economics, as provided for in the following curriculum, furnishes the most effective preparation for later professional study in law and for other activities in the field of business. However, for some students a major, or at least strong minors, in English, history, or political science, will provide a suitable preparation.

The high school program should include the following subjects: elementary algebra, 1 unit (2 semester credits); plane geometry, 1 unit; intermediate algebra, 1 unit; foreign language, 3 units in one language or 2 units each of two languages.

Following is a recommended arrangement of courses:

FRESHMAN YEAR		Units
Physical Education	-----	1½
Health Education 1 or 2	-----	2
*Foreign Languages (if needed to complete requirement)	-----	3-5 3
*Natural Science	-----	3-5 3
*Speech Arts 1A-1B or English elective	-----	3
Economics 14A-14B	-----	3
Psychology 1A	-----	
Electives ¹	-----	0-5 0
		16½ 1
SOPHOMORE YEAR		
Physical Education	-----	1½
*Additional Natural Science (if needed to meet requirement)	-----	3
Economics 1A-1B	-----	3
Philosophy 5A-5B or Mathematics 3A-3B	-----	3
Political Science 1A-1B or 71A-71B	-----	3
Psychology 4A	-----	2
Electives ¹	-----	2
		16½ 1
JUNIOR YEAR		
Economics 121	-----	3
Economics 133	-----	3
Economics 140	-----	
Economics elective	-----	
History 151A-151B or 175A-175B	-----	3
Political Science 111 and 113 or 143A-143B	-----	3
Electives ²	-----	3
		15 1
SENIOR YEAR		
Economics 100	-----	3
Economics 102 or 111	-----	
Economics 199A-199B	-----	1
Economics 135 or 131 or 150	-----	3
History 111A-111B or 121A-121B	-----	3
Political Science 175A-175B	-----	3
Electives ²	-----	3
		16 14

* See lower division requirements, page 24.

¹ Recommended elective: History, 6 units, taken in the freshman or sophomore year.

² Recommended electives: English, philosophy, psychology, sociology.

Reoptometry Curriculum

The high school program should include the following subjects: elementary algebra, 1 (year) unit; plane geometry, 1 unit; algebraic theory, $\frac{1}{2}$ -unit; trigonometry, $\frac{1}{2}$ -unit; physics, 1 unit; chemistry, 1 unit; foreign language, units.

The following curriculum prepares for junior standing in university schools of optometry:

FRESHMAN YEAR		Units	
Physical Education	-----	$\frac{1}{2}$	$\frac{1}{2}$
Health Education 1 or 2	-----	2	
Foreign Language (if needed to complete requirements)	-----	3	3
Physics 2A-2B	-----	3	3
Physics 3A-3B	-----	1	1
Speech Arts 1A-1B	-----	3	3
Social Science	-----	3	3
Electives	-----		3
		<hr/>	<hr/>
		15 $\frac{1}{2}$	16 $\frac{1}{2}$
SOPHOMORE YEAR			
Physical Education	-----	$\frac{1}{2}$	$\frac{1}{2}$
Chemistry 1A-1B	-----	5	5
Mathematics 3A-3B	-----	3	3
Psychology 1A	-----		3
Social Science 1A	-----	3	--
Zoology 20	-----		3
Electives	-----	4	2
		<hr/>	<hr/>
		15 $\frac{1}{2}$	16 $\frac{1}{2}$

Premedical Curriculum

The entrance requirements of medical colleges ordinarily range from three to four years of premedical work. The lower division requirements of the Liberal Arts curricula include the general requirements of standard medical colleges and should therefore be met in full whether the curriculum extends over a period of three or of four years. However, a student who has definitely decided not to become a candidate for a degree in San Diego State College may substitute the lower division requirements of the institution to which he expects to transfer in place of the following courses marked with an asterisk. All plans for premedical work should include the arrangement of courses to meet the requirements of the medical college to which the student expects to enter.

A student who is pursuing a four-year premedical curriculum should major in chemistry or zoology in his junior and senior years, and must meet all lower division requirements for the A.B. degree in the Liberal Arts curricula.

The high school program should include the following subjects: elementary algebra, 1 (year) unit; plane geometry, 1 unit; chemistry, 1 unit; physics, 1 unit; French or German, 2 or 3 units. Two units of Latin are recommended.

See lower division requirements, page 24.

Following is a recommended arrangement of courses:

FRESHMAN YEAR	Units		SOPHOMORE YEAR	Unit
Physical Education -----	$\frac{1}{2}$	$\frac{1}{2}$	Physical Education -----	$\frac{1}{2}$
Health Education -----	2	--	Zoology 1A-1B -----	4
Chemistry 1A-1B -----	5	5	Chemistry 7-8 -----	3
English 1B and 2 or 3----	3	3	*Social Science Year Course -----	3
*French or German (if needed to meet requirement) ¹ -----	3-5	3-5	*Psychology 1A -----	3
*Electives -----	0-2	2-5	*Social Science 1A -----	--
			*Additional Year Course ² -----	3
	<hr/> 15 $\frac{1}{2}$ 16 $\frac{1}{2}$			<hr/> 16 $\frac{1}{2}$ 17 $\frac{1}{2}$
JUNIOR YEAR	Units		SENIOR YEAR	Units
Political Science 101-----	--	2	Upper division requirements and electives for the major, the minors and the degree (see pages 26-27) -----	15
Physics 2A-2B -----	3	3		15
Physics 3A-3B -----	1	1		
Chemistry 105 -----	3	--		
Zoology 100 -----	--	3		
Zoology 100D -----	--	1		
Zoology 106 -----	4	--		
Electives -----	4	5		
	<hr/> 15 15			

Prenursing Curriculum

A student who plans to complete a curriculum in nursing leading to a degree and a certificate in nursing in another collegiate institution should ascertain the lower division (junior certificate) requirements of that institution. The lower division requirements of the institution to which the student will transfer may be substituted for the following courses marked with an asterisk wherever the requirements differ.

The high school program should include the following subjects: elementary algebra, 1 (year unit); plane geometry, 1 unit; chemistry, 1 unit; physics, 1 unit; French or German, 2 or 3 units; 2 units of Latin are recommended.

* See lower division requirements, page 24.

¹ German if the major is Chemistry.

² Mathematics 1A-1B if the major is Chemistry.

FRESHMAN YEAR	Units		SOPHOMORE YEAR	Units	
Physical Education -----	$\frac{1}{2}$	$\frac{1}{2}$	Physical Education -----	$\frac{1}{2}$	$\frac{1}{2}$
Health Education -----	2	--	Psychology 1A-1B -----	3	3
Chemistry 2A-2B -----	3	3	Economics 1A-1B -----	3	3
Bacteriology 1 ¹ -----	--	4	*Social Science 1A -----	--	3
English 1B and 2 or 3 ----	3	3	*Additional Year Course --	3	3
French or German (if			Physiology 1 ² -----	--	5
needed to compete re-			Anatomy ³ -----	--	3
quirement) -----	3-5	3-5	Electives -----	3	--
Electives -----	3-5	0-2			
	<hr/>	<hr/>		<hr/>	<hr/>
	$16\frac{1}{2}$	$15\frac{1}{2}$		$15\frac{1}{2}$	$17\frac{1}{2}$

Candidates for a degree in dentistry should ascertain the entrance requirements of the dental college to which they expect to transfer and should make whatever changes in the following typical requirements that may seem desirable in satisfying the requirements of the dental college.

The following arrangement of courses is recommended:

FRESHMAN YEAR	Units	SOPHOMORE YEAR	Units
Physical Education --- $\frac{1}{2}$	$\frac{1}{2}$	Physical Education ----- $\frac{1}{2}$	$\frac{1}{2}$
Health Education --- 2	--	Chemistry 7-8 ----- 3	3
Chemistry 1A-1B --- 5	5	Physics 2A-2B ----- 3	3
Biology 10A-10B or Zoology 1A-1B --- 3-4	3-4	*Social Science Year Course ----- 3	3
English 1B and 2 or ----- 3	3	*Psychology 1A ----- 3	--
Foreign language (if needed to complete requirement) ----- 3	3	*Social Science 1A ----- --	3
Electives ----- --	0-2	*Additional Year Course 3	3
		<hr/>	<hr/>
			15 $\frac{1}{2}$ 15 $\frac{1}{2}$
16 $\frac{1}{2}$ -17 $\frac{1}{2}$	15 $\frac{1}{2}$ -16 $\frac{1}{2}$		

A high school program should include the following subjects: elementary algebra 1 (year) unit; plane geometry, 1 unit; algebraic theory, $\frac{1}{2}$ unit; trigonometry, $\frac{1}{2}$ unit; solid geometry, $\frac{1}{2}$ unit; chemistry, 1 unit; physics, 1 unit; mechanical drawing, 1 unit; foreign language, 2 units.

dents should ascertain the lower division requirements of the agricultural college they expect to enter.

the lower division requirements for junior standing (junior certificate)

ferred in the summer session.

ferred in the summer session. If not available Zoology 20 (3 units) could be substituted.

new course projected for the Spring of 1941.

The following arrangement of courses is recommended:

Curriculum in Plant Science

FRESHMAN YEAR		Units
Physical Education	-----	$\frac{1}{2}$
Health Education	-----	2
Chemistry 1A-1B ¹	-----	5
Botany 2A-2B	-----	4
Physics 2A-2B	-----	3
Electives ²	-----	2
		<hr/>
		16 $\frac{1}{2}$
SOPHOMORE YEAR		
Physical Education	-----	$\frac{1}{2}$
Economics 1A-1B	-----	3
Chemistry 7-8	-----	3
Geology 1A or 2A	-----	3
Bacteriology 1 (summer session)	-----	—
Zoology 1A	-----	4
Botany 4	-----	—
Electives ²	-----	3
		<hr/>
		16 $\frac{1}{2}$

Curriculum in Animal Science

FRESHMAN YEAR		Units
Physical Education	-----	$\frac{1}{2}$
Health Education	-----	2
Chemistry 1A-1B ¹	-----	5
Zoology 1A-1B	-----	4
Physics 2A-2B	-----	3
Geology 2B	-----	—
Electives ²	-----	2
		<hr/>
		16 $\frac{1}{2}$
SOPHOMORE YEAR		
Physical Education	-----	$\frac{1}{2}$
Economics 1A-1B	-----	3
Chemistry 7-8	-----	3
Bacteriology 1 (summer session)	-----	—
Botany 1A	-----	4
Zoology 100	-----	—
Electives ²	-----	5
		<hr/>
		15 $\frac{1}{2}$

¹ See prerequisites, page 81.

² Foreign language if not taken in high school.

Curriculum in Forestry

FRESHMAN YEAR		Units	
Physical Education	-----	$\frac{1}{2}$	$\frac{1}{2}$
Chemistry 1A-1B ¹	-----	5	5
Botany 1A-1B	-----	4	4
English 1B and 2 or 3	-----	3	3
Mathematics 3A-3B	-----	3	3
		<hr/> 15 $\frac{1}{2}$	<hr/> 15 $\frac{1}{2}$
SOPHOMORE YEAR			
Physical Education	-----	$\frac{1}{2}$	$\frac{1}{2}$
Physics 2A-2B, 3A-3B	-----	4	4
Surveying 1A-1B	-----	3	3
Economics 1A-1B	-----	3	3
Geology 2A	-----	3	--
Chemistry 7	-----	3	--
Electives ²	-----	--	6
		<hr/> 16 $\frac{1}{2}$	<hr/> 16 $\frac{1}{2}$

Preengineering Curricula

The high school program should include the following subjects: elementary algebra, 1 (year) unit; plane geometry, 1 unit; algebraic theory, $\frac{1}{2}$ unit; solid geometry, $\frac{1}{2}$ unit; trigonometry, $\frac{1}{2}$ unit; chemistry, 1 unit; physics, 1 unit; mechanical drawing, 1 unit.

Students should ascertain the requirements of the engineering college they expect to enter.

Mechanical, Electrical, Civil and Mining Engineering

FRESHMAN YEAR		Units	
Physical Education	-----	$\frac{1}{2}$	$\frac{1}{2}$
Health Education 1	-----	--	2
Mathematics 3A-3B	-----	3	3
Chemistry 1A-1B	-----	5	5
Physics 1A-1B	-----	3	3
Geology 1A or elective	-----	4	--
Electives	-----	--	3
		<hr/> 15 $\frac{1}{2}$	<hr/> 16 $\frac{1}{2}$

Mechanical and Electrical Engineering

SOPHOMORE YEAR			
Engineering 1A	-----	3	--
Engineering 21	-----	3	--
Engineering L22	-----	--	3
Engineering L23	-----	--	2
Mathematics 4A-4B	-----	3	3
Mathematics 118 or 119	-----	--	3
Physical Education	-----	$\frac{1}{2}$	$\frac{1}{2}$
Physics 1C-1D	-----	3	3
Electives	-----	3	2
		<hr/> 15 $\frac{1}{2}$	<hr/> 16 $\frac{1}{2}$

See prerequisites, page 81.

¹Foreign language if not taken in high school.

Geology 1A is required in the civil engineering curriculum.

Civil Engineering

SOPHOMORE YEAR

Astronomy 3	-----	-----	U
Engineering 1A-1B	-----	3	
Engineering 21	-----	3	
Engineering L23	-----	-----	
Engineering 25	-----	-----	
Engineering 28	-----	3	
Mathematics 4A-4B	-----	3	
Physical Education	-----	$\frac{1}{2}$	
Physics 1C-1D	-----	3	

		15 $\frac{1}{2}$	1

Curriculum in Industrial Physics

This curriculum is designed for students planning to enter industrial positions including certain phases of manufacturing, public utilities and various civil service positions, or those planning on graduate work in industrial physics or related fields.

The high school program should include the following subjects: elementary algebra, 1 (year) unit; plane geometry, 1 unit; algebraic theory, $\frac{1}{2}$ unit; solid geometry, $\frac{1}{2}$ unit; trigonometry, $\frac{1}{2}$ unit; chemistry, 1 unit; physics, 1 unit; mechanical drawing, 1 unit; French or German, 3 units.

FRESHMAN YEAR	Units	SOPHOMORE YEAR	Units
Physical Education	$\frac{1}{2}$ $\frac{1}{2}$	Physical Education	$\frac{1}{2}$
Health Education 1	2	Mathematics 4A-4B	3
Mathematics 3A-3B	3 3	Physics 1C-1D	3
Chemistry 1A-1B	5 5	Any combination of: En-	
Physics 1A-1B	3 3	gineering 1B, 21, L22	3
*English	3 3	Engineering L23	2
Electives	-- 2	*Foreign Language	3-5 3-5
	-----	*Social Science 1A	3
	16 $\frac{1}{2}$ 16 $\frac{1}{2}$	Electives	0-2

			15-17 16

JUNIOR YEAR	Units	SENIOR YEAR	Units
Physics	6 6	Chemistry 110A-110B ¹	3 3
Engineering 128 ¹	3	Upper division require-	
Engineering 125 ¹	-- 3	ments and electives for	
*Economics 1A-1B	3 3	the major and the de-	
*Psychology 1A	3	gree (see pages 26, 116)	12 12
Political Science 101	2		-----
Electives	-- 3		15 15

	17 15		

* Lower division, requirements must be met in full. See page 23. Students who, during the first two years, chose the regular engineering curriculum will find that certain lower division requirements will have to be deferred until the junior year. All lower division requirements must be completed before senior standing is granted.

¹ Engineering and chemistry should be used to satisfy requirements for the minors. In certain cases of mathematics, minor may be substituted for the chemistry minor.

Curriculum in Industrial Chemistry

This curriculum is designed for those planning to enter the field of industrial chemistry in the production, sales, or management of the industry.

The following subjects should be completed in high school: elementary algebra, 1 unit (2 semester credits); plane geometry, 1 unit; algebraic geometry, $\frac{1}{2}$ unit; solid geometry, $\frac{1}{2}$ unit; trigonometry, $\frac{1}{2}$ unit; physics or chemistry, 1 unit; mechanical drawing, 1 unit; French or German, 3 units.

Following is the recommended arrangement of courses:

FRESHMAN YEAR	Units		SOPHOMORE YEAR	Units	
Chemistry 1A-1B-----	5	5	Chemistry 7-8-----	3	3
Physics 1A-1B-----	3	3	Physics 1C-1D-----	3	3
Mathematics 3A-3B----	3	3	Mathematics 4A-4B----	3	3
English -----	3	3	Foreign Language-----	3-5	3-5
Health Education 1-----	2	--	Engineering		
Natural Science 1A-----	--	3	L22, L23 -----	3	3
Physical Education-----	$\frac{1}{2}$	$\frac{1}{2}$	Physical Ed.-----	$\frac{1}{2}$	$\frac{1}{2}$
	<hr/>	<hr/>		<hr/>	<hr/>
	16 $\frac{1}{2}$	17 $\frac{1}{2}$		15 $\frac{1}{2}$ -17 $\frac{1}{2}$	15 $\frac{1}{2}$ -17 $\frac{1}{2}$
JUNIOR YEAR	Units		SENIOR YEAR	Units	
Chemistry 105A-B-----	3	3	Chemistry 110A-110B--	3	3
Chemistry 112 -----	2	--	Chemistry 111A-111B--	2	2
Chemistry 144 -----	--	3	Chemistry 127 -----	2	--
Engineering 125, 128----	3	3	Chemistry Elective-----	0	1
Economics 1A-1B-----	3	3	Physics (upper division)	3	3
Natural Science 101-----	2	--	Electives -----	6	7
Psychology 1A-----	--	3			
Electives -----	3	2			
	<hr/>	<hr/>		<hr/>	<hr/>
	16	17		16	16

Public Service Curricula—Public Administration

Because the vocational demand for students of public administration is comparatively limited the student of public administration will do well to prepare himself also for a related field of work for which there is not only a cultural but also a vocational demand. The candidate for a public administrative position who is equipped for a career in a professional, scientific or technical field that is common to both public and private enterprise has a distinct advantage. The special courses in public administration listed in the following curriculum are supplementary courses designed for cultural exploratory and orienting purposes. The curriculum as a whole provides for a major in economics, outlines a general preparation for the public service in social science fields and furnishes a basis for more highly specialized graduate courses in the field of public administration.

Lower division requirements must be met in full. See page 23. Students who, during the first two years, choose the regular engineering curriculum will find that certain lower division requirements will have to be deferred until the junior year. All lower division requirements must be completed before senior standing is granted.

The following arrangement of courses is recommended:

(60)

trigonometry, $\frac{1}{2}$ unit; foreign language, 3 units in one language or 2 units in each of two languages.

Following is a recommended arrangement of courses :

FRESHMAN YEAR	Units	SOPHOMORE YEAR	Units
Physical Education-----	$\frac{1}{2}$ $\frac{1}{2}$	Physical Education -----	$\frac{1}{2}$
Health Education 1 or 2----	2 --	Economics 1A-1B -----	3
Biology 10A-10B -----	3 3	Political Science 1A-1B or 71A-71B -----	3
*Foreign Language (if needed to complete re- quirement) -----	3-5 3-5	*Additional Year Course--	3
Psychology 1A -----	-- 3	*Additional Natural Sci- ence (if needed to meet requirement) -----	3
*Speech Arts 1A-1B or English elective-----	3 3	Sociology 50A -----	3
Electives ¹ -----	2-5 2-4	Sociology 50B ² -----	--
	<hr/>	Electives ¹ -----	--
	16 $\frac{1}{2}$ 16 $\frac{1}{2}$		<hr/>
			15 $\frac{1}{2}$
JUNIOR YEAR	Units	SENIOR YEAR	Units
Economics 102 or 131 or 150 -----	-- 3	Economics 140-----	3
Sociology 105-----	3 --	Sociology 197-----	3
Sociology 109-----	-- 3	Sociology 199A-199B-----	1
Psychology 118-----	3 --	Psychology 145-----	--
Psychology 150-----	-- 3	Political Science 143A- 143B or Upper Division	
Zoology 114A-----	2 --	Anthropology -----	3
Political Science 101-----	2 --	Electives ³ -----	5
Electives ³ -----	5 6		<hr/>
	<hr/>		15
	15 15		

Public Service Curricula—Foreign Service

A curriculum of training for the foreign service in consular, vice-consul and other offices is available on request. This curriculum outlines preparation for competitive examinations required for entrance to the Foreign Officer's Training School at Washington, D. C.

Curriculum in Journalism

A broad, cultural education, and specific information and understanding in fields with which the journalist is largely concerned, are essential for an effective training for journalism. Introductory training in the principles and practices of journalistic writing are offered only after a good foundation in correct speaking and writing of English has been laid.

* See lower division requirements, page 23.

¹ Recommended electives: Economics 14A-14B, 6 units; Psychology 4A units.

² Sociology 100 may be substituted in the junior year.

³ Recommended electives: Anthropology 152, 3 units; Economics 102, 150, 3 units each; History 171A-171B, 6 units; Sociology 106, 108, 13 units each; Sociology E112, Social Case Work, 2 units (extension division), E113, Administration of Public Welfare agencies, 2 units (extension division).

See minors requirements and U. S. Constitution requirement, page 26.

actical training in news reporting and editing for student publications
l for the daily and weekly press is emphasized.

e high school program should include the following subjects: elemen-
y algebra, 1 (year) unit; plane geometry, 1 unit; foreign language, 3
ts in one language or 2 units in each of two languages; English, 4
ts; natural science, 1 or 2 units in the junior or senior year.

llowing is a recommended arrangement of courses :

FRESHMAN YEAR	Units		SOPHOMORE YEAR	Units	
Physical Education-----	$\frac{1}{2}$	$\frac{1}{2}$	Physical Education-----	$\frac{1}{2}$	$\frac{1}{2}$
Health Education-----	2	--	Economics 1A-1B or Polit-		
English 1B-2 or 3-----	3	3	ical Science 1A-1B or		
History 4A-4B or 8A-8B			71A-71B-----	3	3
or Political Science 1A-			Journalism 51A-51B-----	3	3
B or 71A-71B-----	3	3	*Philosophy 5A-5B (if		
Foreign Language (if			needed to complete addi-		
needed to complete re-			tional year course re-		
quirement)-----	0-5	0-5	quirement)-----	3	3
Journalism 10A-10B-----	1	1	*Natural Science-----	3	3
Electives ¹ -----	0-5	0-6	Psychology 1A-----	3	--
	-----	-----	Social Science 1-----	--	3
	16 $\frac{1}{2}$	15 $\frac{1}{2}$	Electives ² -----	1	--
				-----	-----
				16 $\frac{1}{2}$	15 $\frac{1}{2}$
<hr/>					
JUNIOR YEAR	Units		SENIOR YEAR	Units	
Social Science Major ³ ---	6	6	Social Science Major ³ ---	6	6
English Minor ⁴ -----	3	3	Second Minor ⁴ -----	3	3
Journalism 151A-151B---	1	1	Journalism ⁵ -----	2	2
Journalism ⁵ -----	2	2	Journalism 199-----	--	2
Electives-----	3	3	Political Science 101 (if		
	-----	-----	not included in major)-	2	--
	15	15	Electives-----	2	2
				-----	-----
				15	15

the lower division requirements for junior standing, page 24.

Recommended electives: Aesthetics 1A-1B, 4 units; Aesthetics 5, 2 units;
Anthropology 50A-50B, 6 units; Geography 2, 3 units; Sociology 50A-50B,
3 units; Secretarial Training L2A, or equivalent, no credit; Speech
Arts 1A, 3 units.

Recommended electives: Journalism L53A-L53B, 2 or more units.

The Social Science major must include a concentration of 12 upper divi-
sion units in one of the following fields and 6 units in each of two others:
Anthropology, Economics, Geography, History, Political Science, Socio-
logy.

See minors requirements, page 26.

Not more than six units of Journalism L53A-L53B and L153A-L153B may
be counted toward the A.B. degree and not more than four units of
Journalism 153C-153D may be counted.

TWO-YEAR COMPLETION CURRICULUM OFFERED IN COOPERATION WITH THE SAN DIEGO CITY SCHOOLS

These curricula are organized for students who have not yet qualified for enrollment in a four year curriculum leading to the Bachelor of Arts degree, and for regularly qualified students who prefer a short college completion course of two-years duration.

The following special courses are designed for students enrolled in the two-year completion curriculum: Astronomy L40; Biology L40; English L40B, L40C; Geography L40A, L40B; Geology L40; Physical Science L40; Political Science L45; Psychology L40; Social Science L40; Sociology L40A, L40B; Spanish L40A, L40B; Speech Arts L40.

Any other course designated by the prefix "L" (e.g. English L1A) is regularly open to students enrolled in a two-year completion curriculum. See Limited Electives, page 27. The following courses are also regularly open to two-year students: Aesthetics 1A, 1B, 2; Art 6A, 6B, 8A, 8B, 11A, 11B, 14A, 14B, 52A, 61B, 94A, B; Health Education 1, 2; Mathematics A, B, C, D, E, S; Music 1B, 11A, 11B, 11C, 11D, 12A, 12B, 12C, 12D, 13A, 13B, 13C, 13D, 15A, 15B, 15C, 15D, 20A, 20B, 20C, 20D, 26A, 26B, 26C, 26D, 27A, 27B; Occupations; Physical Education for Men 1B, 1C, 1D; Physical Education for Women 1A, 1B, 1C, 1D; Speech Arts 55A, 55B.

A two-year student may elect any other college lower division subject under guidance where his high school scholarship record, or his scores on the aptitude and achievement tests, or his subsequent college record indicate probable success in that field. He must, of course, meet all prerequisites for the course under consideration.

Two-year Curriculum in Liberal Arts

FIRST YEAR	Units	Units	SECOND YEAR	Units	Units
	Sem. I	Sem. II		Sem. I	Sem. II
English L1A-L40B or English Elective* -----	3	3	Speech Arts L40 or English Elective* -----	3	---
Physical Science L40 or equivalent -----	3	---	Social Science (Economics L10A, Merchandising L24A, Sociology L40B, or Social Science Elective*) -----	3	---
Biological Science L40 or equivalent -----	---	3	Political Science L45 -----	---	3
Social Science L40 -----	3	---	Psychology L40 -----	---	3
Sociology L40A -----	---	3	Elective* -----	9	10
Elective -----	5	5	Physical Education -----	$\frac{1}{2}$	$\frac{1}{2}$
Orientation -----	1	---			
Health Education 1 or 2 -----	---	2			
Physical Education -----	$\frac{1}{2}$	$\frac{1}{2}$			
	<hr/> 15 $\frac{1}{2}$	<hr/> 16 $\frac{1}{2}$		<hr/> 15 $\frac{1}{2}$	<hr/> 16 $\frac{1}{2}$

* See foregoing list in italics.

Two-year Curriculum in Art

FIRST YEAR	Units	Units	SECOND YEAR	Units	Units
	Sem. I	Sem. II		Sem. I	Sem. II
English L1A, L40B or English Elective* -----	3	3	Social Science L40 or equivalent ---	3	--
Physical Science L40 or equivalent	3	--	Political Science L45 -----	--	3
Biological Science L40 or equivalent	--	3	Art Elective** ----	9	9
Health Education 1 or 2 -----	--	2	Elective* -----	3	4
Art 6A-6B -----	2	2	Physical Education--	$\frac{1}{2}$	$\frac{1}{2}$
Aesthetics 5 or equivalent -----	2	--		<hr/>	<hr/>
Art A-B or equivalent -----	2	2		15 $\frac{1}{2}$	16 $\frac{1}{2}$
Elective* -----	3	4			
Physical Education--	$\frac{1}{2}$	$\frac{1}{2}$			
	<hr/>	<hr/>			
	15 $\frac{1}{2}$	16 $\frac{1}{2}$			

Two-year Curriculum in Music

FIRST YEAR	Units	Units	SECOND YEAR	Units	Units
	Sem. I	Sem. II		Sem. I	Sem. II
English L1A, L40B or English Elective* -----	3	3	Social Science L40 or equivalent ---	3	--
Physical Science L40 or equivalent	3	--	Political Science L45 -----	--	3
Biological Science L40 or equivalent	--	3	Speech Arts or Foreign Language*--	3	3
Health Education 1 or 2 -----	--	2	Music 4A-4B* or approved substitute -----	3	3
Music L1A-1B or equivalent -----	2	2	Applied Music ----	1-2	1-2
Aesthetics 1A-1B --	2	2	Elective (including at least 2 units of music)* -----	4-5	5-6
Music Elective* ----	1	1	Physical Education--	$\frac{1}{2}$	$\frac{1}{2}$
Applied Music ----	1-2	1-2		<hr/>	<hr/>
Elective* -----	2-3	1-2		15 $\frac{1}{2}$	16 $\frac{1}{2}$
Physical Education--	$\frac{1}{2}$	$\frac{1}{2}$			
	<hr/>	<hr/>			
	15 $\frac{1}{2}$	16 $\frac{1}{2}$			

* See list in italics on page 64.

** Art Elective: Art 8A-8B, 7, 11A-11B, 14A-14B, 15A-15B, 16A-16B, 1, 94.

Two-year Curriculum in Speech Arts

FIRST YEAR	Units		SECOND YEAR	Units	
	Sem. I	Sem. II		Sem. I	Sem. II
English L1A, L40B or English Elec- tive* -----	3	3	Physical Science L40 or equivalent --		3
Health Education--	2	--	Speech Arts, Elec- tive (Oral In- terpretation, Dramatic Expression)* ----	3	3
Speech Arts L40---	3	--	Art 52A -----	2	--
Speech Arts 55A- 55B -----	3	3	Art 94 -----	2	--
Aesthetics 1A-1B--	2	2	Social Science L40 or equivalent ----	3	--
Art 6A-6B -----	2	2	Political Science L45 -----	--	3
Biological Science L40 or equivalent --	--	3	Psychology L40---	3	--
Physical Education--	$\frac{1}{2}$	$\frac{1}{2}$	Physical Education--	$\frac{1}{2}$	--
Elective* -----	--	3	Elective* -----	3	6
	15 $\frac{1}{2}$	16 $\frac{1}{2}$		16 $\frac{1}{2}$	15

Two-year Curriculum in Pre-nursing

FIRST YEAR	Units		SECOND YEAR	Units	
	Sem. I	Sem. II		Sem. I	Sem. II
English L1A, L40B, or English Elec- tive* -----	3	3	Zoology 20 -----	3	--
Biological Science L40 or equivalent 3	3	--	Economics L10A- L10B -----	3	3
Chemistry 2A-2B, or equivalent* -----	3	3	Psychology L40 ---	3	--
Health Education 1 or 2 -----	--	2	Speech Arts 20 or substitute -----	1	--
Social Science L40--	3	--	Political Science L40 -----	--	3
Elective* -----	3	4	Elective* -----	5	5
Physical Education--	$\frac{1}{2}$	$\frac{1}{2}$	Physical Education--	$\frac{1}{2}$	$\frac{1}{2}$
SUMMER SESSION			SUMMER SESSION		
Bacteriology 1 ----	--	4	Physiology 1 -----	--	5
	15 $\frac{1}{2}$	16 $\frac{1}{2}$		15 $\frac{1}{2}$	16 $\frac{1}{2}$

Two-year Curricula in Merchandising, Accountancy, and Secretarial Training

The curricula in merchandising, accountancy, and secretarial training offer a short business preparation of college grade. The four-year course in the Liberal Arts curricula leading to the A.B. degree with a major in economics or commerce offers a more thorough preparation for business not only by furnishing a richer background of knowledge but by encouraging individual research work and a research attitude of mind in order

* See list in italics on page 64.

that the student may become more resourceful, self-reliant, and keener to analyze and cope with business and social conditions and problems.

Merchandising

		Units	Units			Units	Units
FIRST YEAR		Sem. I	Sem. II	SECOND YEAR		Sem. I	Sem. II
English L8-----	--		3	Merchandising L20_	3	--	--
Speech Arts L40---	3	--	--	Merchandising L24B	--	--	3
Secretarial Training				Merchandising L27_	--	--	3
L1A-----	1	--	--	Economics 18A-18B	3		3
Secretarial Training				Economics L10A-			
L1A-----	3	--	--	L10B-----	3		3
Secretarial Training				Psychology L40----	3	--	--
L3A-----	--		3	Physical Education_	$\frac{1}{2}$		$\frac{1}{2}$
Economics L15A-				Physical Science			
L15B-----	3		3	L40 or Biological			
Merchandising L25_	3	--	--	Science L40 or			
Merchandising L26_	--		2	equivalent-----	3	--	--
L7-----	--		3	Political Science			
Biological Science				L45-----	--		3
L40 or equivalent				Elective*-----	1	--	--
or-----							
Physical Science						16 $\frac{1}{2}$	15 $\frac{1}{2}$
L40 or equivalent	3	--	--				
Health Education 1							
or 2-----	--		2				
Physical Education_	$\frac{1}{2}$		$\frac{1}{2}$				
	16 $\frac{1}{2}$		16 $\frac{1}{2}$				

Accountancy

		Units	Units			Units	Units
FIRST YEAR		Sem. I	Sem. II	SECOND YEAR		Sem. I	Sem. II
Economics L15A-				Economics L65A-			
L15B-----	3		3	L65B-----	3		3
English L8-----	--		3	Merchandising L20_	3	--	--
English Elective*--	3	--	--	Merchandising L24B	--	--	3
Secretarial Training				Secretarial Training			
L1A-L1B-----	3		3	L3A-----	3	--	--
Health Education 1				Economics 18A-18B	3		3
or 2-----	--		2	Economics L10A-			
Physical Science				L10B-----	3		3
L40 or equivalent	3	--	--	Political Science			
Biological Science				L45-----	--		3
L40 or equivalent	--		3	Elective*-----	--		1
Elective*-----	3		2	Physical Education_	$\frac{1}{2}$		$\frac{1}{2}$
Physical Education_	$\frac{1}{2}$		$\frac{1}{2}$				
						15 $\frac{1}{2}$	16 $\frac{1}{2}$
	15 $\frac{1}{2}$		16 $\frac{1}{2}$				

* See list in italics on page 64.

Secretarial Training

FIRST YEAR	Units	Units	SECOND YEAR	Units	Units
	Sem. I	Sem. II		Sem. I	Sem. II
Economics L16A-			Physical Science		
L16B -----	3	3	L40 or equivalent	3	
Secretarial Training			Biological Science		
LA -----	1	--	L40 or equivalent	--	
English L8 -----	3	--	Economics 18A-18B	3	
English Elective*--	--	3	Economics L10A-		
Secretarial Training			L10B -----	3	
L1A-L1B -----	3	3	Secretarial Training		
Secretarial Training			L6A-L6B -----	3	
L5A-L5B -----	5	5	Secretarial Training		
Health Education 1			L3A -----	3	
or 2 -----	--	2	Political Science		
Physical Education--	$\frac{1}{2}$	$\frac{1}{2}$	L45 -----	--	
			Elective* -----	--	
	15 $\frac{1}{2}$	16 $\frac{1}{2}$	Physical Education--	$\frac{1}{2}$	
				15 $\frac{1}{2}$	16

* See list in italics on page 64.

COURSES OF INSTRUCTION

Figures in parentheses indicate the unit value of the course.

Courses numbered from 1 to 99 are lower division (freshman or sophomore) courses; those numbered 100 and above are upper division (junior or senior) courses. The prefix "L" is used to denote courses which are classified as limited electives for students enrolled in the liberal arts curricula. See page 27. Students may not ordinarily apply more than a total of twelve units of credit, earned in courses so designated, toward the requirements for the bachelor of arts degree. The prefix "E" indicates courses which are offered through the Extension service, and "S" denotes courses which are available during the Summer Session.

Freshmen are not admitted into upper division courses.

A sophomore may enroll in an upper division course for lower division credit provided he has earned an average grade of not less than 1.5 grade points in all college work undertaken, and provided he receives the instructor's permission to enroll in the course. A second semester sophomore may enroll in an upper division course for upper division credit without the foregoing grade limitations provided the units earned in the upper division course or courses are in excess of the sixty-four units required in the lower division.

One "unit" represents an hour recitation or lecture, together with the required preparation, or three hours laboratory work each week for a semester of 18 weeks.

The semester in which courses are offered is designated as follows: (1) Fall; (2) Spring; (3) Fall and Spring; (4) Year course, beginning either in the Fall or Spring; (5) Year course. Courses designated as "Year course" may be taken in the Fall, but those given in the list below may be taken in the second semester order (i.e., the second semester of the course may be taken before the first semester) or the second semester may be taken alone. In the case of other year courses, students who have completed the equivalent of the first semester's work may seek permission from the instructor to take the second half of the course. Single semester courses having the letter B as a part of the number (as for example, Art 61B) are not supposed to follow another course of the same number unless so indicated in the prerequisites to the course.

AESTHETICS

Year Courses Open to Registration in the Middle of the Year

Aesthetics 1A-1B	Spanish 110A-110B
Aesthetics 102A-102B	French 111A-111B
Anthropology 50A-50B	History 4A-4B
Anthropology 151A-151B	History 8A-8B
Economics 160A-160B	History 111A-111B
English 30A-30B	History 121A-121B
English 52A-52B	History 146A-146B
English 56A-56B	History 151A-151B
English 106A-106B	History 156A-156B
English 107A-107B	History 171A-171B
French 101A-101B	History 173A-173B
French 105A-105B	Merchandising L24A-L24B
French 107A-107B	Political Science 1A-1B
French 110A-110B	Political Science 71A-71B
Spanish 101A-101B	Political Science 175A-175B
Spanish 102A-102B	Speech Arts 55A-55B
Spanish 104A-104B	Speech Arts 55C-55D
Spanish 105A-105B	Speech Arts 155A-155B
	Speech Arts 156A-156B

Although the College fully expects to carry out the arrangements planned in the list of courses, it reserves the right to make changes. Classes in which the enrollment does not come up to the minimum number set by the State Department of Education may not be offered or may be postponed.

AESTHETICS

LOWER DIVISION COURSES

1A-1B Survey of Music

Spring

Correlation of music and other arts. Designed to stimulate enjoyment of music by developing intelligent listening. The elements of music, its structure, folk music of all countries, musical instruments, and the contributions of the best known composers, with some biographical study of these men. Compositions are presented by orthophonic recording and played by class members. Attendance at a number of local concerts is required. No previous musical training or background is necessary. Music majors are required to complete additional assignments for full credit.

Year course (2-2)

5 Fundamentals of Art

Jackson

An illustrated lecture course involving a study of aesthetic meaning and its relation to the structure of art products. Designed to increase both understanding and appreciation of the visual world in general and of the fine arts in particular.

Fall and Spring (2)

50 Appreciation and History of Art

Jackson

A survey of aesthetic development as revealed in the painting, sculpture, architecture, and handicrafts from dawn of art to the Renaissance. Illustrated.

Fall (2)

ART

UPPER DIVISION COURSES

1A-102B History of Music

D. F. Smith

A survey of the various movements in the development of music as related to the liberal arts. The chronological development of the art of music, with particular emphasis on the larger works. Considerable attention is given to the works of modern composers. Many symphonic works are studied from the orchestral scores. Music majors are required to complete additional assignments for full credit. Prerequisite: Aesthetics 1A 1B.

Two semester course (2-2)

1A-103B Appreciation and History of Art

Jackson

A survey of the period from the Renaissance through the modern school, treated in the same manner as in Aesthetics 50.

One semester course (2)

ART

Candidates for a teaching credential in art should refer to the statement of admission to Teacher Training" on page 28.

For upper division preparation for the liberal arts major in art: Aesthetics 50; fourteen units carefully chosen from lower division art courses to meet the stated prerequisites for upper division work. These shall include Art A-B, 6A-6B, or the accepted equivalents, and six elective units in art.

For liberal arts major (upper division): Twenty-four upper division units. These shall include Art 112A, 115A-115B, 152A, 195, or the accepted equivalent; Aesthetics 150.

It is recommended that the students in meeting degree requirements and choosing free electives, select from the following courses: Anthropology A-151B; English 106A-106B, 107A-107B, 117; French A-B; History 104B, 111A-111B.

For art majors: courses in Appreciation and History of Art and Fundamentals of Art, see Aesthetics, page 70.

LOWER DIVISION COURSES

Art Appreciation

1A-104B Appreciation of Costume and Home Furnishing Patterson

A survey of the periods of costume and home furnishing from primitive man to the present time.

Lectures, discussions, and demonstrations on the underlying principles of dress and home furnishing. (a) A study of the design, color, texture, fabric, and fashion in modern dress with emphasis on suitability to the occasion, the personality and the occasion. (b) Line, form, color, texture, fabric, and lighting in relation to the home; the selection and arrangement of furniture, rugs, fabrics, pictures, etc., for all rooms of the home. *Autumn and Spring (2)*

*Design***6A Structure****Hamann, Patter**

Fundamentals of design and composition and theory of color. B course used as a prerequisite for all advanced work.

Fall and Spring (2)

6B Structure (continued)**Jackson, Patter**

Original work in creative design with special stress on modern tendencies. Prerequisite: Art 6A.

Fall and Spring (2)

L7 Line, Color and Display**Patter**

The principles of line, color and arrangement applied to store window display. Study and observation of windows, color and materials used in display. Building models and practical problems in arrangement of colors, textures, and forms in windows to fit different kinds of merchandise.

Fall and Spring (2)

11A Industrial Design**Hamann**

Original design in its relationship to various fields—ceramics, furniture, textiles, jewelry, and books. A survey and study of materials and processes in machine and hand production. Prerequisite: Art 6A-6B.

Fall (2)

11B Advanced Industrial Design**Hamann**

Advanced problems with emphasis upon the related factors of materials and production. Application of problems designed. Prerequisites: 6A-6B, 11A.

Spring (2)

L14A Lettering**Hou**

Fundamental art principles applied to lettering. Practice for quick, accurate lettering; original problems using letters as design. Prerequisite: Art 6A.

Fall (2)

14B Posters and Commercial Art**Hou**

The application of lettering to posters, newspaper and magazine advertising, and other forms of commercial art. The study of composition combined with lettering and special study of modern tendencies in publicity. Prerequisites: Art 6A, 14A.

Spring (2)

52A Stage Design**Patters**

Theory of line, color, and lighting in relation to the stage. Original sets and costumes developed on a miniature stage. Study of the development of the modern art of the theater. Upper division credit will be given in this course to students of junior standing upon the completion of extensive theme work and additional original problems. Prerequisite: Art 6A.

Fall (2)

Costume Design **Patterson**
 original designs of modern costumes suitable to the individual or to distinct types; the drawing of fashion figures; the rendering of fabrics and textures. Prerequisite: Art 6A.

Spring (2)

Home Decoration (See Art 195) **Patterson**

Drawing and Painting

3 Freehand Drawing **Houser**
 Semester I: Problems involving perspective to develop ability to draw still life, furniture, exteriors, interiors, and the like.

Semester II: Outdoor sketching of landscape and figure, and studio work in still life and costume pose. Emphasis on composition and technique in the handling of various mediums, pencil, pen and ink, charcoal, pastel, and water color.

Four course (3-3)

A-15B Life Drawing **Jackson**
 Drawing from the nude model. Prerequisite: Art A-B.
Four course, beginning either Fall or Spring (2-2)

A-16B Painting **Jackson**
 Semester I: Composition of still life and flower forms in water color and oil. Semester II: Landscape and more advanced composition in water color and oil. Prerequisite: Art A-B.
Four course, beginning either Fall or Spring (3-3)

A-61A Fine and Industrial Arts **Hamann**
 Foundation course which develops unification of work of the elementary arts through activities and experiences. These experiences grow out of environmental activities. They include study and working of clay, lumber, and tools, textiles, and cardboard construction. Prerequisite: Art 6A.
Two and Spring (2)

A-62B Elementary Crafts **Hamann**
 Problems involving the application of design principles to various fields—pottery, textiles, weaving, metal work, wood-carving, and book-binding. Prerequisite: Art 6A.
Two and Spring (2)

UPPER DIVISION COURSES

Design

A-106B Printmaking **Houser**
 Study of print crafts which includes the making of linoleum blocks, wood carvings and etchings. Prerequisites: Art A, B, 6A.
Two course (2-2)

A-112B Organization **Houser**
 Imaginative organization of space by means of color, dark and light, perspective, and textures of various materials. Prerequisites: Art A-B, 6B, and if possible 15A-15B or 106A.
Two course (2-2)

EDUCATION

106C Illustration

Hous

Same as 106A-B except that printmaking is applied to problems of book illustration. Prerequisites: Art A, B, 6A.

Spring (2) (Offered in 1940-41 and alternate years)

152A Stage Design

Patterson

See Art 52A.

152B Stage Costume

Patterson

Costume studied in relation to drama, opera and dance. Original designs for mood and character. Practical problems in designing costumes and accessories for college productions. Prerequisites: Art 6A, 52A or 152.

Fall (2)

195 Home Decoration

Patterson

Lectures and designing in class, trips to art galleries, stores, factories and homes, studying how to recognize and choose the best in furniture, rug wall coverings, textiles and pottery as to design, color and material. Actual experience in designing and arranging furnishings in homes and offices. Working with local stores and architects. Arrangement of flowers and objects for different types of rooms and occasions. Prerequisites: Art A, 6A.

Spring (2)

Drawing and Painting

115A-115B Life Drawing and Painting

Jackson

Drawing and painting from nude and costume models.

Year course, beginning either Fall or Spring (2-2)

115C-115D Advanced Life

Jackson

Painting from nude and costume models and advanced composition in oil. Portraiture. Prerequisite: Art 115A-115B.

Year course, beginning either Fall or Spring (2-2)

116A-116B Advanced Painting

Jackson

Painting in water color, and oils from still life and landscape, stressing composition and technique. Prerequisite: Art 16A-16B.

Year course, beginning either Fall or Spring (3-3)

EDUCATION

LOWER DIVISION COURSES

L17 Music in the Elementary School

Arnold

Main objectives of music teaching in the public elementary schools. Study of the child voice. Organization of song material by grades. Procedure in presenting rote songs, ear training, elementary notation, music reading, and part singing. Conducting. Not open to students taking the elementary credential, nor to freshmen. Prerequisite: Music 1A, or the equivalent.

Fall and Spring (2)

L19 Art in the Elementary School

Arnold

Discussion of the elements and principles of art and their place in the art expression and appreciation of the elementary school child. Lectures

EDUCATION

strated with examples of children's work and opportunity given for experience with mediums used in elementary school problems. Not open to students taking the elementary credential. Prerequisite: Art 6A.

Fall and Spring (2)

UPPER DIVISION COURSES

100A-B Methods and Materials of Instruction

R. C. Perry, Siemens, and major subject instructors

Year course required of all candidates in their junior year for the junior high and all special secondary credentials. Candidates for a combination of either a junior high or a special secondary credential with an elementary credential may substitute the work of the elementary practicum for the first half of this course, but not vice versa.

The first half of the course deals with general methods of instruction, the organization and functions of the secondary school curriculum; the second half deals with specific methods used in the field of the teacher, major or minor and with directed observation of teaching. Subject sections in 100B are offered in the following semesters:

Fall semester: Music (1940 and alternate years), Social Studies, Junior Business Training, Stenography, Speech Arts, Mathematics, Physical Education (men and women), and science

Spring semester: English, Social Studies, Art, Science, Romance Languages (1941 and alternate years), Bookkeeping, Typewriting, Physical Education (men and women).

Students meet twice a week with their major subject instructors, once a week in a combined class with an education instructor.

Fall and Spring (3-3)

A-B The Psychological Foundations of Education Deputy

Year course required of all teacher training candidates in their junior year. A basic course required in the curriculum preparing for the general secondary credential. The first half of the course deals with elementary statistics and the use of tests and other measuring devices; the second half deals with the problems of child growth and development and education psychology.

Fall and Spring (6)

109 Educational Administration and Supervision

Survey of the systems of organization, classification, and promotion of schools, and such problems as finance, the teaching staff, building standards, extra-curricular activities, etc. Prerequisites: Education 125, 108, or equivalents.

Summer (3)

110 Educational Organization and Supervision

Principles of supervision and methods of evaluating and improving teaching. Prerequisites: Education 125, 108, or equivalents.

Summer (3)

111 English in the Junior High School (See Education 100B)

Techniques of literature and language teaching in the junior high school; criteria for selection of material; technique of classroom procedure;

observation in the city schools. Prerequisite: The satisfaction of the lower division requirements in English for the teaching major in English.
Summer (3)

LS114 Social Science in the Junior High School (*See Education 100*)

The teaching of some of the elementary facts and principles of a "general social science suited to the experience and development of the junior high school pupil, through the medium of such social studies in the junior high school curriculum as history, geography, and civics. Methods: Developing a genuine and continuing interest in social and civic problems through observation and reading, discussed and illustrated. Special stress on evaluating historical and geographical material for educative purposes on this level. Prerequisites: Six units of geography and six units of history.

Summer (3)

115A-B The Principles and Functions of Education

Ault, R. C. Perry, Siemer

A year course restricted to students with senior standing or the equivalent. Required of all junior high school candidates. The second half of the course is required of all special secondary credential candidates and the first half is required of all elementary credential candidates.

The first half of the course deals with the historical backgrounds and underlying philosophies upon which the modern public school system has been established; the last half deals with the principles and sociological factors functioning in the modern secondary school.

Fall and Spring (8)

L116 Practice Teaching

R. C. Perry and Supervisor

Systematic observation, participation and teaching under supervision in the campus training school, the Euclid affiliated city elementary school, the Woodrow Wilson Junior High School, and the Herbert Hoover Senior High School. All students enrolled in this course are automatically enrolled in a section meeting bi-weekly throughout the semester as announced in the time schedule.

The general plan is for elementary school credential candidates to take in addition to the education practicums, a half-day of teaching daily in the campus elementary school or two and one-half hours daily in one of the affiliated city elementary schools throughout one semester; junior high school and special secondary school credential candidates will be guided by their adviser relative to the distribution of their practice teaching. For those seeking a combination of credentials, the requirements for each teaching level must be satisfied. Further information regarding this requirement should be requested of the Dean of Education when the student first registers for practice teaching.

Thirty clock hours of practice teaching will usually carry one unit of credit in the course, but the final amount of credit allowed will depend upon the character and quality of the teaching done by the student. Practice teaching requirements may be reduced for those who furnish evidence of successful public school experience.

The maximum amount of credit allowed for this course is twelve units.

The universities usually reduce the amount of practice teaching credit they will allow to four units. Students planning to transfer to such

tutions should be prepared to meet this reduction with an equal number of acceptable units in other courses.

grade below a C is acceptable for credit in this course.

prerequisites: Completion of 75 units of college work; admission to teacher training; a C average in all college work and in the work of the preceding semester; three units of work in psychology. No credit will be given unless the student registers for this course in the office of the Dean of Education.

19 Art in the Junior High School

problems, discussions and observations which will give an understanding of the type of work that should be taught in junior high schools.
Number (3)

27 Music in the Secondary School (*See Education 100B*)

L. D. Smith

objectives of music teaching in the public secondary schools. Organization of the chorus and glee clubs, voice testing, seating, a survey of song materials available. Organization of courses in applied music, theory, history and appreciation.

1 (2) (Offered in 1940-41 and alternate years)

130 Educational Psychology

the equipment for learning and the learning process. Consideration of factors in human behavior which is fundamental to learning. The study of learning includes such topics as laws of learning, improvements in learning, remembering and forgetting, fatigue in learning, and the transfer of learning. Prerequisite: Psychology 1A.

Number (3)

140 Elementary Educational Statistics

introductory study of measures of central tendency, of variability, and of relationship which are commonly used in connection with educational work. Laboratory training in statistical method and opportunity to apply in practice in the use of calculating machines and other aids to computation. Data for statistical research taken from typical school situations. Only 2 units allowed students who have taken Economics 140.

Number (3)

142 Educational Sociology

consideration of school practices in light of social needs; interrelationships of schools and other social agencies; and trends in cooperative activities among community organizations. Selected individual study projects to make personal contacts with various types of public and private social institutions and with some current social movements. Prerequisite: Upper division standing.

Number (3)

150 Organization and Administration of Music Education

L. D. Smith

theory of the general principles of music administration; correlation of music with the various subjects in the public schools; music tests; music activity work.

(2) (Offered in 1940-41 and alternate years)

L147 Education Practicum

Arnold, Bacon, E. Hammack, I. Hammack, Madden, Norda
Pfaff, Re

This course and Education 148 are required of all students who expect to receive a credential which will qualify them to teach in the elementary school. Students should take the course during the next semester after admission to Teacher Training, which is usually the first semester of the junior year. Registration is strictly limited to small groups.

Education Practicum is a unified course which deals with the interpretation and intelligent application of theory and practice in elementary education. The child and accumulated knowledge are studied as they affect the other. The psychology of learning is interpreted while the college student is immediately associated with the experiencing of children. For two or three hours each day classes are held in which the psychology and philosophy of education are studied and analyzed in systems of knowledge and concurrently interpreted in reference to actual teaching participation to which the student is assigned for one hour daily. The course includes the material commonly taught in many colleges under the titles of educational psychology, principles of learning, mental hygiene, special methods courses in reading, arithmetic, English, art, music, speech, etc.

The course is taught by college instructors who are in direct contact with the Campus Elementary School.

Fall and Spring (12)

L148 Education Practicum

Arnold, Bacon, Corbett, Lucio, Madden, K. Post, B. Sto

The course is a continuation of Education 147. An extended analysis is made of the special fields and applications are made to teaching participation with groups of older children in the elementary school. Prerequisite: Education 147.

Fall and Spring (12)

L160 Commercial Education (See Education 100B)

Wrig

Aims, objectives and procedures in commercial education. A study of curricula, together with a consideration of the content of commercial subjects; tests applicable to commercial teaching.

Fall (2)

L161 Junior Business Training (See Education 100B)

Wrig

The methods and content of the course in the elements of business training as offered in the junior high school. Not open for credit for those who have taken Secretarial Training 3A.

Spring (2)

L163 Stenography (See Education 100B)

Amsc

Methods and content of courses in stenography. Prerequisites: Secretarial Training 5A-5B, 6A.

Fall (2)

L164 Bookkeeping (See Education 100B)

Wrig

Various types of bookkeeping method, with considerable study of content.

Fall (2)

ENGINEERING

5 Typewriting (*See Education 100B*)

Amsden

Methods in typewriting and office procedure. Prerequisite: Secretarial Training 1A.

ing (2)

9 Graphic Methods in Education

R. C. Perry

Fundamentals of pictorial representation as used by the teacher in preparing classroom material, in educational literature, in presenting the tools to the public, and in administrative control. Emphasis will be placed on the construction of charts and graphs for popular consumption. Course particularly valuable to candidates for the administrative credential. No prerequisite although it is desirable that the student have some teaching experience.

ing (2)

170 Administration of a Visual Instruction Program M. Evans

Service program of a visual instruction center is studied as a collecting, selecting, organizing and distributing center for classroom illustrative materials; a teacher training and advisory bureau in the technique and correct use of visual aids; a photographic production laboratory making current and local illustrative materials for the curriculum; a planning division for evaluating visual equipment, standardization and upkeep of same; a center for correlating and integrating the school program with opportunities offered by other community educational institutions and organizations; an advisory department for supervising school film productions and for instructing teachers and students in the use of photography and appreciation of photoplays.

A course is given at the visual education center of the San Diego city schools and the enrollment is limited to students who have made previous arrangements with the head of the Education Department and with the instructor.

and Spring (2)

3 Speech Arts in the Secondary School (*See Education 100B*)

Jones

Organization and conduct of junior high and high school speech activities.

1 Educational Problems

Education Staff

(Dean of Education in charge)

Course for senior students in residence and enrolled in teacher training who have shown ability to work independently on educational problems. Problem can be chosen only after consultation with a staff member. Admission by consent of the staff. Credit and hours to be arranged.

and Spring (1-3)

ENGINEERING

(For curricula in engineering see page 57.)

LOWER DIVISION

1B Plane Surveying

Gleason

Installation and adjustment of surveying instruments, computations and mapping, together with a study of land, topographic, city, and mine sur-

veying. Two instruction periods and one three-hour period for field and mapping each week. Prerequisites: Trigonometry and Mechanical Drawing, or equivalent, and sophomore standing.

Year course (3-3)

S3 Summer Class in Surveying

Practical field problems in reconnaissance, triangulation, location of topographic surveys. Observations for meridian, time and latitude. Precise work in linear and angular measurements. Development of confidence, reliance, accuracy, and professional skill on the part of the student. 10 weeks course held in the mountains near San Diego. For details regarding location of camp, date of registration, date of opening, and other arrangements, a special announcement of the surveying camp may be secured at the Registrar's Office. Offered if demand is sufficient. Prerequisite: Surveying 1A-1B.

Summer (3)

21 Descriptive Geometry

Wal

Fundamental principles of descriptive geometry and their application to problems of engineering. Lectures and drafting. Prerequisites: 1 year of mechanical drawing, and sophomore standing.

Fall (3)

L22 Machine Drawing

Wal

Design and drawing of simple machine parts with emphasis upon production of standard drawings. Lectures and drafting. Prerequisite: Engineering 21.

Spring (3)

L23 Materials of Construction

Wal

Structural properties and adaptability of materials used in engineering. Lectures. Prerequisite: Sophomore standing.

Spring (2)

25 Elements of Electrical Engineering

Wal

Mathematical and descriptive consideration of electrical circuits and machinery together with a general survey of the electrical industry. Primarily for engineering students other than mechanical or electrical. Prerequisites: Mathematics 4A, Physics 1C.

Spring (3)

28 Elements of Heat Power Engineering

Wal

Fundamental consideration of fuels, combustion, steam, boilers, furnaces, chimneys, steam engines, steam turbines and auxiliaries, internal combustion engines. Lectures. Prerequisites: Mathematics 3B, Physics 1C. Primarily for engineering students other than mechanical or electrical.

Fall (3)

UPPER DIVISION

125 Elements of Electrical Engineering

Wal

Essentially the same as Engineering 25 with addition of special problems for advanced students. Prerequisites: Mathematics 4A, Physics 1C. Primarily for students enrolled in the Industrial Physics curriculum.

Spring (3)

Elements of Heat Power Engineering **Walling**
 essentially the same as Engineering 28 with addition of special problem
 k for advanced students. Prerequisites: Mathematics 3B, Physics 1B.
 narily for students enrolled in the Industrial Physics curriculum.
 (3)

ENGLISH

er division preparation for the liberal arts major in English: English
 or 1C, and 2 or 3; and six units from 30A, 30B, 52A, 52B, 56A, 56B.
 eral arts major (upper division): 24 units in upper division English
 be selected and arranged under supervision of the department. A
 ling knowledge of German or French.

LOWER DIVISION COURSES

Freshman English **V. M. Evans, Johnson, Trail**
 elements of composition, including drill in grammar and usage,
 cises in vocabulary building and careful reading, and an introduction
 he principles of effective writing.
 l and Spring (3)

Freshman English **Adams, V. M. Evans, Johnson, Keeney,
 Kennedy, Trail, F. D. Walker**
 position stressing exposition. Reading from essays of England and
 erica since 1850. Prerequisite: Satisfactory Subject A test or record
 a another college.
 l and Spring (3)

Freshman Literature **V. M. Evans, Keeney**
 introduction to literature significant in European and American
 ure, with composition.
 l and Spring (3)

Sophomore English **Kennedy, F. D. Walker**
 position stressing personal narrative and informal essay. Reading
 a field of biography and memoirs. Prerequisite: One semester of
 shman English.
 l and Spring (3)

Sophomore English **Adams, Dickhaut, Johnson**
 position stressing article writing of varied types. Reading from
 ent periodical literature. Prerequisite: One semester of freshman
 lish.
 l and Spring (3)

English in Business **Torbert**
 ory and practice of business correspondence. Business letters as
 lied salesmanship; problems in writing credit and collection letters,
 lications for employment, adjustment letters, and sales letters. Pre-
 uisite: English L1A or equivalent, as indicated by Subject A Examina-
 , or record from college. This course is planned for students in Secre-
 al Training; units obtained in it cannot be used to meet English
 irements in other fields.
 l and Spring (3)

10 Recreational Reading

Dickh

Development of personal tastes for leisure-time reading through lect and oral or written reports. May be taken a second time with material.

Fall and Spring (1)

30A-30B Survey of American Literature

Kenn

Semester I: A survey of American literature from its beginnings to 1860. Semester II: American literature from 1860 to the present. Lectu discussions, and reports.

Year course (3-3)

L40B Freshman English

Literature, mainly contemporary, is read for its thoughts and ideas, e cially in relation to human problems and their solution. Practice writing is continued. Prerequisite: English L1A, L40A, or 1B. *Note the designation for this course has been changed from 5B to L40B.*

Fall and Spring (3)

L40C Sophomore English

Composition stressing personal narrative and informal essay. Reading in biography. *Note the designation for this course has been changed from 5C to L40C.*

Spring (3)

52A-52B Types of Literature

Adams, Dickhaut, T

Semester I: Introduction to the study of lyrical and narrative poet origin and elements of poetry; typical poems. Semester II: Introduct to the study of dramatic poetry and prose, the essay, novel and sh story; elements, principles and characteristics; examples.

Year course (3-3)

56A-56B Survey of English Literature

Keen

The most important masterpieces of English literature from the Ang Saxon period through the Victorian age.

Year course (3-3)

UPPER DIVISION COURSES

101 Modern Prose Fiction

Dickha

Recent and contemporary fiction in novel and short story, includi British and Continental, as well as a selection from present day Americ

Spring (3)

106A, 106B Advanced Composition

Dickha

A laboratory course in modern prose writing. Semester I: Artistic na rative, with description. The short story. Semester II: The essay, t magazine article, criticism. Outside readings. Prerequisite: One ye of college composition. Either semester may be taken first.

Fall, Spring (3-3) (Offered in 1941-42 and alternate years)

107A, 107B Advanced Composition

Adar

These courses are designed for students who wish to do independe work in composition. The discussions will consider the problems of eff tive expression as exhibited in the work of the members of the cla

prerequisite: Same as for 106A, 106B. Either semester may be taken.

II, Spring (3-3) (Offered in 1940-41 and alternate years)

106A Recreational Reading

Dickhaut

an advanced course in the group reading of modern drama, poetry and fiction.

II and Spring (1)

106B The English Language

Kennedy

a study of usage and change in the English language, its history and characteristics, with emphasis upon the more recent developments in the language.

Spring (3) (Offered in 1940-41 and alternate years)

107A The Age of Elizabeth

Adams

poetry and Prose, exclusive of the drama.

II (3) (Offered in 1940-41 and alternate years)

107B The Elizabethan Drama

Adams

emphasis is given to the forerunners and early contemporaries of Shakespeare.

Spring (3) To be arranged

108A Shakespeare

F. L. Johnson

an introduction to Shakespeare, with special emphasis on the histories and comedies.

II (3)

108B Advanced Shakespeare

F. L. Johnson

Shakespearean tragedy and tragic-comedy.

Spring (3)

109A Swift and His Contemporaries

Keeney

a study of the literature of the first half of the eighteenth century, with special emphasis on social satire of Swift, Pope, Addison, Steele, Gay and Prior.

Spring (3) (Offered in 1941-42 and alternate years)

109B Age of Johnson

Keeney

a study of Johnson and his circle as representative of their age, together with a study of Burns, Blake, and others as forerunners of the age of Romanticism.

Spring (3) (Offered in 1940-41 and alternate years)

110 The Romantic Poets

Adams

a study of early nineteenth century poetry; the work of Wordsworth, Coleridge, Byron, Shelley, and Keats, in relation to the thought of the revolutionary period.

Spring (3) (Offered in 1941-42 and alternate years)

111 Poetry of the Victorian Period

F. D. Walker

a study of Tennyson and Browning and their contemporaries and successors, relating English poetry to nineteenth century life and thought.

II (3) (Offered in 1941-42 and alternate years)

126 Nineteenth Century British Prose

Dickh

Readings and discussions of romantic and mid-Victorian prose writing including Coleridge, Hazlett, Lamb, de Quincey, Carlyle, Landor, Mac lay, Mill and Thackeray.

Fall (3) (Offered in 1940-41 and alternate years)

127 Modern British Prose

Dickh

Late nineteenth and early twentieth century essays of Arnold, Beerbo Belloc, Chesterton, Galsworthy, Gosse, Huxley, Inge, Newman, Pater, Ruskin, Shaw, Stevenson, Tomlinson and Wells.

Fall (3) (Offered in 1941-42 and alternate years)

131 Spokesmen of American Ideals

Ada

The writers studies will be chosen from Franklin, Paine, Emerson, Lowell, Lowell, Thoreau, Whitman, Parkman, Henry Adams, and William James.

Fall (3) (Offered in 1940-41 and alternate years)

132 The Frontier and American Literature

F. D. Wall

A survey of the influence of the frontier upon American literature from colonial days to the present. Studies in source materials, biography and representative writers such as Irving, Cooper, Harte, and Mark Twain.

Spring (3) (Offered in 1940-41 and alternate years)

133 American Fiction and Drama

Kenne

A study of the major American novelists from Cooper to Norris, of the short story of the 19th century, and of the American drama from Fitts to Moody.

Fall (3) (Offered in 1941-42 and alternate years)

134 Recent American Literature

F. D. Walk

A survey of American literature since 1900 with emphasis upon contemporary poetry and fiction.

Spring (3) (Offered in 1941-42 and alternate years)

143 The Development of the English Novel

F. D. Walk

History of the English novel from the beginnings to Hardy. Extensive reading of novels with reports. Lectures and discussion.

Fall (3) (Offered in 1940-41 and alternate years)

151 Medieval Literature

Keene

The literature of the fourteenth century, especially the verse romance and the poetry of Chaucer.

Fall (3)

152A Survey of Drama: Comedy

V. M. Evan

Studies in the field of comedy, based on selected readings from the works of Continental, English, and American dramatists. Lectures, discussion and reports on reading.

Fall (3)

152B Survey of Drama: Tragedy

V. M. Evan

Procedure as in 152A, with selections taken from the field of tragedy.

Spring (3)

FOREIGN LANGUAGES

Seventeenth Century Literature

Adams

emphasis is put upon the work of Milton.

(3) (Offered in 1941-42 and alternate years)

Honors Course

F. D. Walker and Staff

Special study. Open to members of the Honors Group in English. See page 21.

Fall and Spring (1 to 5-1 to 5)

SPEECH ARTS

(See page 136.)

FOREIGN LANGUAGES

For a background for advanced work in Romance languages, students are advised to include in their electives as many as possible of the following courses: Geography 118, History 121A, 121B, 145A, 145B, 147, Aesthetics 148 or 150; English 1C, 52A, 52B, 56A, 56B, 101, 116A, 116B, 117, 118A, 118B, 119, 121, 126, 143, 160.

FRENCH

LOWER DIVISION COURSES

For lower division preparation for the liberal arts major in French: French 1A-C-D; either German A-B or Spanish A-B; History 4A-4B.

For liberal arts major in French: Twenty-four units of upper division work, of which at least eighteen must be in French, and of which a maximum of six may be in related subjects, arranged in consultation with the chairman of the department. At least a C average in upper division French courses.

French 1A Elementary

Baker, L. P. Brown, Phillips

Extensive study of French grammar and syntax; daily written work discussed in class; class drill in conversational idiom and pronunciation; dealing with oral discussion and résumés; dictation; introduction to contemporary prose writers. Credit not given for French A unless followed by French B. Students who have had one year of French in high school should register for French B. Those who have had two years of French in high school should register for French C.

First course (5-5)

French 1B Intermediate

E. M. Brown, Phillips

Reading and composition; study of standard prose as a basis for class work, collateral reading with résumés and written reports in French; discussion. Individual conferences. Prerequisite: French B or two years of high school French, or its equivalent. Students with three years of high school French may take D with full credit.

Second course (3-3)

French 1C Scientific

L. P. Brown

Reading taken from the fields of chemistry, physics, medicine, zoology, botany, etc. Outside readings of books and periodicals. Oral and written reports. Prerequisite: French B or equivalent.

(2) (Offered in 1941-42 if registration warrants)

FOREIGN LANGUAGES

UPPER DIVISION COURSES

101A-101B Conversation and Composition

E. M. Brown

Prerequisite: French D, or its equivalent, with grade of C.

Year course (3-3)

105A-105B Modern French Drama

E. M. Brown

Plays of Musset, Scribe, Augier, Dumas fils, Pailleron, Brieux, H. de Vieux, Maeterlinck, Rostand, and others read and discussed as to subject matter and technique. Outside reading and reports. Prerequisite: French D, or its equivalent, with grade of C.

Year course (3-3) (Offered in 1941-42)

107A-107B Eighteenth Century Literature

L. P. Brown

The works of Montesquieu, Voltaire, Rousseau, the Encyclopédistes, and others. Prerequisite: French D, or its equivalent, with a grade of C.

Year course (3-3)

110A-110B Modern French Novel

E. M. Brown

The French novel from Victor Hugo to the present day, including such authors as: Hugo, Dumas, Stendhal, Balzac, Flaubert, Loti, Anatole France, Bourget, Bordeaux, Bazin, Barres, Romain Rolland, A. Gide, Marcel, Proust, and others. Class and outside reading and reports. Prerequisite: French D, or its equivalent, with grade of C.

Year course (3-3) (Offered in 1943-44)

111A-111B Seventeenth Century Dramatic Literature

E. M. Brown

Reading in class of plays of Molière, Corneille, and Racine. Outside readings and lectures on the background of the seventeenth century in France. Prerequisites: French D or its equivalent, with a grade of C.

Year course (3-3) (Offered in 1942-43)

199 Comprehensive Reading and Survey Course

The State

Designed to fill up the gaps in the reading done in courses. Class meeting once a week for guidance, reports, and quizzes. Required of all seniors majoring in French.

Spring (3)

GENERAL LANGUAGE

LOWER DIVISION COURSE

A Latin and Greek Word Derivation

L. P. Brown

A general and elementary course in philology. A study of Latin and Greek roots of most frequent occurrence in English, and of the English words derived from them.

Fall (2)

ITALIAN

A-B Elementary

Phillips

Intensive study of Italian grammar and syntax, with daily written work; class drill in conversational idiom and pronunciation; reading of works by contemporary writers. Credit not given for Italian A unless followed by Italian B. Students who have had one year of Italian in high school should register for Italian B.

Year course (5-5)

GERMAN

LOWER DIVISION COURSES

Elementary

H. K. Walker

Pronunciation, reading and grammar, with practice in simple conversation, narration and description, both oral and written. Credit not given for German A unless followed by German B. Students who have had one year of German in high school should register for German B. Those who have had two years of German in high school should register for German C.

3-5 course (5-5)

Intermediate

H. K. Walker

Reading and composition; study of standard prose as basis for class work; collateral reading with written reports; German conversation, with the texts read as a basis; dictation. Prerequisite: German B or two years of high school German, or its equivalent. Students with credit for three years high school German, or its equivalent, should enter German D, and will receive full credit.

3-3 course (3-3)

Elementary

H. K. Walker

Course similar to German A-B, but meeting only three times a week, giving only three units of credit a semester. Intended for those who wish to go more slowly than is possible in a course meeting five times a week. Credit not given for German 1 alone.

3-3 course (3-3)

SD Scientific

Messner

One semester. Readings in scientific reader on chemistry, physics, etc.; occasional written reports on scientific subjects read outside of class; dictation. Spring semester. Readings in special scientific or technical works; weekly written reports required; sight reading. Prerequisite: German SC-German B with a grade of C or two years of high school German; German SD-German SC, German C, with a grade of C, or two years of high school German.

2-2 course (2-2) (Offered in 1941-42)

SPANISH

Upper division preparation for the liberal arts major in Spanish: Spanish C-D; French A-B; History 4A-4B.

Liberal arts major in Spanish: Twenty-four units of upper division work, of which at least eighteen must be in Spanish, and of which a maximum of six may be in related subjects, arranged in consultation with the chair of the department. At least a C average in upper division major courses.

LOWER DIVISION COURSES

Elementary

Baker, L. P. Brown

Intensive study of Spanish grammar and syntax, with daily written work; class drill in conversational idiom and pronunciation; reading with discussion and résumé; dictation; introduction to contemporary Spanish writers. Credit not given for Spanish A unless followed by Spanish B.

FOREIGN LANGUAGES

B. Students who have had one year of Spanish in high school should register for Spanish B. Those who have had two years of Spanish in high school should register for Spanish C. Those who have passed L4 should register for Spanish B.

Year course (5-5)

C-D Intermediate

Phillip

Reading and composition: study of standard prose as basis for class work; collateral reading in prose and drama, with written reports in Spanish; dictation. Class work conducted mainly in Spanish. Individual conferences. Prerequisite: Spanish B or two years of high school Spanish, or its equivalent. Students with credit for three years of high school Spanish, or its equivalent, should enter Spanish D, and will receive full credit.

Year course (3-3)

L40A-L40B Elementary

Bak

A course similar to Spanish A-B, but meeting only three times a week and giving only three units of credit a semester. Credit not given for Spanish L40A unless followed by Spanish L40B. *Note the designation for this course has been changed from 1 and 2 to L40A-L40B.*

Year course (3-3)

UPPER DIVISION COURSES

101A-101B Conversation and Composition

Phillip

Prerequisite: Spanish D, or its equivalent, with grade of C.

Year course (3-3) (Offered in 1941-42)

102A-102B Introduction to Spanish Classics

L. P. Brown

Reading from several types of classical literature. *Lazarillo de Tormes* and other novels of Roguery; selections from *Don Quixote*, and the *Cien Mejores Poesias Castellanas*; one drama each from the works of Lope de Vega, Calderon, Alarcon, and Moreto; collateral reading and reports. Prerequisite: A grade of C in Spanish D or permission from the instructor.

Year course (3-3) (Offered in 1942-43)

104A-104B Spanish-American Literature

Phillip

A survey of the whole field of Spanish-American literature during the colonial, revolutionary and modern periods. Lectures, class reading, collateral reading and reports. Prerequisite: A grade of C in Spanish D or permission from the instructor.

Year course (3-3)

105A-105B Modern Spanish Drama

L. P. Brown

The development of the drama of Spain from the beginning of the nineteenth century to the present time. Prerequisite: A grade of C in Spanish D or permission from the instructor.

Year course (3-3) (Offered in 1943-44)

110A-110B Novel and Short Story in Spain

L. P. Brown

The development of the novel and short story in Spain from 1830 to the present time. Prerequisite: A grade of C in Spanish D or permission from the instructor.

Year course (3-3) (Offered in 1941-42)

HEALTH EDUCATION

Comprehensive Reading and Survey Course **The Staff**
designed to fill up the gaps in the reading done in courses. Class meetings once a week for guidance, reports, and quizzes. Required of all seniors majoring in Spanish.
Fall and Spring (3)

HEALTH AND PHYSICAL EDUCATION

(See Physical Education)

HEALTH EDUCATION

LOWER DIVISION

Health and Social Adjustment (Men) **C. E. Peterson**
An informational course in personal and community hygiene. A study of social hygiene and the hygienic principles of living. Speakers from the County Medical Association on subjects of vital interest enrich the offerings of this course. It is especially desirable that this course be taken in the freshman year.
Fall and Spring (2)

Health and Social Adjustment (Women) **B. I. Stone**
An informational course reviewing the principles underlying the improvement and preservation of personal and civic health. Social hygiene in its applications to the practical problems of young women and prospective home makers. Required of all freshmen who are candidates for junior standing in the degree.
Fall and Spring (2)

Physiology of Reproduction (Women) **Huff**
A course consisting of a series of lectures and discussion dealing with normal and abnormal physiology and anatomy of reproduction facts and trends in sex hygiene, and related topics. Prerequisite: Sophomore standing.
Fall (1)

UPPER DIVISION

Health Education **B. I. Stone**
A course for teacher-training students which includes the study of the diseases, common physical defects, and health indices of school children; the detection and control of communicable diseases which may appear in the school; and the elements which underlie a health education program. Methods of presenting personal and group health to children of different ages. Hygiene of the schoolroom, such as seating, lighting, and ventilation.
Fall and Spring (2)

Infant and Child Care (Women) **Black**
A course designed to prepare for more intelligent parenthood and consisting of lectures on prenatal preparation and prophylaxis, appraisal of the new born infant, the hospital period, breast feeding, artificial feeding, physical hygiene of infancy. Normal mental growth, normal physical

JOURNALISM

growth, habit training, disease prevention, behavior problems, preventive physical defects, the role of the physician and examination. Prerequisite: Health Education 90.

Spring (1)

JOURNALISM

For the curriculum in journalism see page 62.

For the profession of journalism introductory work in the fields of literature, history, political science, economics, social economics, the arts, etc. is recommended.

The aim in the specialized courses in journalism is to offer introductory training in the principles and practices of journalistic writing only after good foundation in correct speaking and writing of English has been laid. Practical training in news reporting and editing for student publication and for the daily press is emphasized.

LOWER DIVISION COURSES

10A-10B Contemporary Press

Swanson

Development of the American newspaper; comparison of American and foreign newspaper practices; display and treatment of news; press associations. Prerequisite to Journalism 51A-51B; open to general enrollment.

Fall and Spring (1-1)

51A-51B News Gathering and Reporting

Swanson

Study of news sources and types; practice in news writing; newspaper organization; excursions and special lectures. Course planned for sophomores who have had English 1B, with high school journalism or equivalent. Freshmen admitted by permission of instructor.

Year course (3-3)

L53A-L53B Applied Journalism

Swanson

Credit earned for editorial or other staff work throughout a full semester on student publications such as *The Aztec*, *El Palenque*, *Del Sudoeast*.

Fall and Spring (1 to 3-1 to 3)

UPPER DIVISION COURSES

151A-151B Newspaper Editing

Swanson

Study and practice in the editorial, headline writing and editing of newspaper copy; newspaper management.

Fall and Spring (1-1)

L153A-L153B Advanced Journalism Practice

Swanson

Upper division work of the same type as that in 53A-53B, but with 151A-151B required as a prerequisite unless waived by the instructor.

Fall and Spring (1 to 3-1 to 3)

Note: Not more than six units in all will be given for journalism practice on student publications.

C-153D Newspaper Practices

Swanson

work on community publications, including county newspapers, under direction of the instructor.

Fall and Spring (2)

Special Course for Advanced Students

Swanson

Open to seniors with sufficient journalistic background to satisfy the instructor.

Fall and Spring (2)

LIBRARY SCIENCE

1) Use of the Library

J. P. Stone

The chief object is to give a working knowledge of some of the resources of the library which every teacher and student should understand—the decimal classification, the card catalog, periodical indexes, and the most important reference books, together with some instruction in the preparation of bibliographies. The course will be a requirement of those added to the library's staff of student assistants, although it will not prepare the student to become a librarian.

Fall and Spring (1)

LIFE SCIENCES

(General Biological Science, Botany, Zoology)

Upper division preparation for advanced work in botany: Botany 2A, 2B, and Chemistry 1A, 1B, 8. Recommended: German, French, and elementary courses in other biological sciences.

Upper division preparation for the liberal arts major in zoology: Zoology 1B, and high school chemistry or Chemistry 1A-1B. Recommended: German or French, Botany 2A, 2B, 4.

Liberal arts major in zoology: (1) At least a C average in upper division courses. (2) Twenty-four units of upper division courses in zoology, eighteen in the major subject and six in related courses in botany, chemistry, physics, physiology or bacteriology.

Students preparing to teach science in the junior high school should try to include courses in zoology, botany, bacteriology, physics, chemistry (at least high school chemistry). Courses designed to help the student get acquainted with wild life of the region should be included. Recommended: Botany 4, 104, 102; Zoology 112, 113A, B, C, D, 121.

Fees: A fee is required in all laboratory courses in this department.

The fee covers the cost of materials used. For breakage and extra material in addition to the estimated need an extra charge must be made.

BIOLOGY

LOWER DIVISION COURSES

Survey

Darsie

A survey of the Life Sciences, stressing the development of modern concepts in the fields of plant and animal science, bacteriology, genetics, and physiology. Emphasis is placed on the relationships of biology to modern science and the application of scientific analysis to everyday problems. Three lectures and one hour of demonstration and discussion per week.

Not open to students with credit for Biology 10A-10B, Zoology 1A or Botany 2A-2B.

Fall or Spring (3)

10A-10B General

Lectures: John

Laboratory: Crouch, Engler, Jann

The fundamentals of plant and animal biology, with elementary work in human physiology and heredity. Laboratory work supplements the lectures and includes a study of living and preserved material. Aim of course to acquaint the student with the basic facts of biology. Ten lectures and one three-hour laboratory period per week. Designed for those who do not expect to specialize in zoology or botany; not open for credit to students who have taken Zoology 1A, or Botany 2A. Students who have taken 10A-10B may elect Zoology 1B or Botany 2A, for credit.

Year Course (3-3) Begins in Fall only

L40 Man and His Biological World

Dar

A survey of the general field of biology with emphasis on the role of biological science in the welfare of man and his associates, consisting of three lectures and one demonstration period per week. Not open to students who have credit in high school biology, zoology, or botany. *Note the designation of this course has been changed from 5 to L40.*

Fall and Spring (3)

BACTERIOLOGY

Note: A four unit introductory course in bacteriology is usually given in summer school.

199 Special Study

Work other than is outlined in the regular courses. Admission only by consent of the instructor with whom the work is to be done and the chairman of the Life Science department. Credit and hours to be arranged in each case. Open to students who have completed at least 6 units of bacteriology with grades of A or B.

BOTANY

LOWER DIVISION COURSES

2A General

Harve

Fundamentals of structure and general behavior of seed plants. Twelve lectures or recitations and six hours of laboratory per week.

Fall (4)

2B General

Harve

A continuation of 2A treating morphology and relationship of the lower plants and including an introduction to classification of seed plants. Lectures and laboratory as in 2A.

Spring (4)

4 California Plants

Harve

Classification and ecology of representative orders of wild flowers, trees, and chaparral of the San Diego region, including practice in the use of

LIFE SCIENCES—ZOOLOGY

s. One lecture and three hours laboratory per week. Occasional
urday field trips.

ing (2)

UPPER DIVISION COURSES

Plant Geography

Harvey

tures and field work on the principles of geographical distribution of
nts. Prerequisite: Botany 2A-2B, or 4, or equivalent.

l (2) (Offered in 1941-42 and alternate years)

Taxonomy

Harvey

atification, classification and distribution of representative orders of
ering plants. Six hours per week of lectures, laboratory, and field
k. Prerequisites: Botany 2A-2B, or 4.

ing (3) (offered in 1940-41 and alternate years)

Plant Physiology

Harvey

activities of plants, including food manufacture, absorption, con-
sion, transpiration, respiration, growth, and movement. Two lectures
six hours of laboratory per week. Prerequisite: Biology 10A-10B or
any 2A, and at least high school chemistry.

l (4)

Special Study

Staff

k other than is outlined in the above courses. Admission by consent
he instructor with whom the work is to be done and the chairman of
department. Credit and hours to be arranged in each case. Open only
tudents who have completed at least fifteen units of Botany with a
le of A or B.

and Spring (1 or 2)

ZOOLOGY

LOWER DIVISION COURSES

General

Harwood and Engler

introduction to animal biology dealing with structure, functions, and
ution of animal life. Laboratory work supplementing the lectures
based on the study and observation of living and preserved material
gs and invertebrates). Valuable to the general student as well as to
biology specialist, acquainting him with the fundamental facts and
ries of biology as they pertain to animal life. Two lectures or recita-
s and six hours of laboratory per week. Students who have credit
Biology 10A-10B receive no credit for Zoo. 1A but receive credit for
1B.

(4)

General

Harwood and Engler

ontinuation of 1A. The structure, relationships, and classification
he chordates. Two lectures and six hours of laboratory per week.
erequisite: Zoology 1A or Biology 10B.

ng (4)

Anatomy and Physiology

Crouch

elementary course in human anatomy and physiology. Prerequisite:
a school biology, or Biology 1 or 10A or Zoology 1A. Lectures three
s per week.

or Spring (3)

LIFE SCIENCES—ZOOLOGY

UPPER DIVISION COURSES

100 Embryology

Johns

The development of vertebrates as illustrated by the frog, chick, and pig. Three hours of laboratory and two hours of lecture per week. Prerequisite: Zoology 1B or Biology 10B.

Spring (3)

100D Microscopic Technique

Introduction to methods of preparation of tissues for microscopic study. Three hours of laboratory per week. Prerequisite: elementary chemistry, limited to students who have completed or are now taking Zoo. 100.

Spring (1)

106 Comparative Anatomy of the Vertebrates

Crou

Dissection, study and comparison of organ systems of typical vertebrates. Two hours per week of lecture and six hours of laboratory. Prerequisite: Zoology 1B or Biology 10B.

Fall (4)

112 Marine Invertebrates

Johns

Identification and study of behavior and life histories of invertebrates in the San Diego region. Frequent collecting trips to the beaches required. Prerequisite: Zoology 1A or Biology 10B.

Fall (3) (Offered in 1941-42 and alternate years)

113A Taxonomy and Natural History of the Mammals

Harwood and Engl

Frequent field trips and the identification of preserved material. Three hours of laboratory per week.

Spring (1) (Offered in 1940-41 and alternate years)

113B Ornithology

Crou

The study and identification of birds, especially those of the Pacific Coast and the San Diego region. One hour of lecture and six hours per week of laboratory, or field excursions. Prerequisite: Zoology 1B or Biology 10B.

Spring (3) (Offered in 1940-41 and alternate years)

113C Field Study of Birds

Crou

The study and identification of the birds of the San Diego region. Three hours of laboratory or field work per week.

Spring (1) (Offered in 1941-42 and alternate years)

113D Natural History of Fishes

Harwood

Lectures, laboratory, and field work to acquaint the student with the groups of fishes, their habits and economic importance.

Fall (1) (Offered in 1940-41 and alternate years)

114A Genetics

Harwood

General introductory course designed to acquaint the student with the fundamental principles of heredity and variation. Special attention given to the Mendelian interpretations of the facts of inheritance. Two lectures per week.

Fall (2)

MATHEMATICS

4B Evolution

the development of theories of evolution. Two lectures or discussion periods per week.

Spring (2) (Not offered in 1940-41)

1 Entomology

Harwood

the classification, life history, structure, and physiology of insects. Prerequisite: Zoology 1A or Biology 10B. Two hours of lecture and six hours of laboratory per week.

Spring (4)

6 Medical Entomology

Harwood

the role of insects and other arthropods in transmission and causation of human diseases. Three hours of laboratory and one hour of lecture per week. Prerequisite: Zoology 1A or Biology 10B.

Fall (2) (Offered in 1941-42 and alternate years)

0 Readings in Biology

Harwood

readings from a suggested bibliography with informal class discussion of topics. Subjects discussed will include history of biology, biological principles, ecology, economic zoology, zoogeography, breeding habits, animal behavior.

Spring (2) (Offered in 1941-42 and alternate years)

9 Special Study

Staff

work other than is outlined in the above courses. Admission only by consent of the instructor with whom the work is to be done and the head of the department. Credit and hours to be arranged in each case. Open to students who have completed at least fifteen units of Zoology with a grade of A or B.

Fall and Spring (1 or 2)

MATHEMATICS

Upper division preparation for the liberal arts major in mathematics: Mathematics 3A-3B, 8, 4A-4B with an average grade of C or better. Two or more of the following are recommended: Astronomy 1, Economics 1-1B, 2, Engineering 21, French A-B, German A-B, Physics 1A-1B or 1A-2B, Surveying 1A.

Liberal arts major (upper division): Twenty-four units including at least fifteen in upper division mathematics, the others being selected from Astronomy 107, Chemistry 111A-111B, 144, Physics 105A-105B, 112 and other approved courses. The major should be arranged in consultation with the chairman of the department and completed with a grade of C or better.

LOWER DIVISION COURSES

A, LB, C, D, E, S Introductory Mathematics Livingston, Walton

The courses A, B, C, D, and E are fully equivalent to those of the same name in high school; S is an introductory course in the theory and use of the slide rule; C includes numerical and analytic trigonometry and spherical right triangles. Credit allowance if taken in college is as indicated below. For most students the time required for A or B will be equal to that for a 3-unit course, and for D, that for a 5-unit course. Students are expected to have done recommended work in earlier mathe-

MATHEMATICS

mathematical courses taken in high school and to have made high aptitude achievement scores in college entrance tests. In lieu of this, special permission must be secured from department and instructor. Courses A and D are offered each semester, others less frequently.

LA. Elementary Algebra (2).

LB. Elementary Geometry (2).

C. Trigonometry (3). Prerequisites: Mathematics A, B, and D.

D. Intermediate Algebra (3). Prerequisites: Mathematics A.

E. Solid Geometry (2). Prerequisites: Mathematics A, B, and D.

S. Slide Rule (1). Prerequisites: Mathematics A, B, and D.

1 Elementary Analysis

Livingston

A general course in calculus and related topics, with applications in several fields. Not ordinarily available for students who have taken a course in calculus. Prerequisites: Mathematics A, B, and C, or equivalents, with recommended grades, or permission of instructor.

Spring (3)

3A-3B Analytic Geometry and Calculus

Livingston, Gleason, Wall

Analytic geometry and differential calculus, together with an introduction to integral calculus. Prerequisites: Trigonometry and intermediate algebra in high school, with recommended grades, or permission of department.

Year course (3-3)

4A-4B Solid Analytic Geometry and Calculus

C. E. Smith, Wall

Integration, partial differentiation, solid analytic geometry, infinite series and multiple integrals. Prerequisite: Mathematics 3A-3B. Solid geometry and college algebra are recommended.

Year course (3-3)

L5 Solid Mensuration

Wall

Derivation and use of formulas for calculation of dimensions, surface areas and volumes of mathematical solids. Required of those not having mathematics sufficiently high grades to enter 3A directly. Open as an elective to others. Prerequisites: Introductory courses in algebra, geometry, and trigonometry, except that the latter may be taken concurrently.

Fall and Spring (2 or 3)

8 College Algebra

Livingston

Complex numbers, determinants and theory of equations. Prerequisites: Trigonometry and either 3A or 1.

Fall and Spring (2 or 3)

UPPER DIVISION COURSES

102 Selected Topics in Algebra

Wall

Topics supplementary to those considered in Mathematics 8 and 11. Prerequisites: Mathematics 3A-3B and 8.

Spring (3) (Offered in 1941-42 and alternate years)

- 04 History of Mathematics** **Gleason**
 History of mathematics down to early modern times. Prerequisite: Mathematics 1 or 3A-3B.
Fall (3) (Offered in 1941-42 and alternate years)
- 05 College Geometry** **Livingston**
 An extension of the high school course in plane geometry, dealing largely with triangles and circles. Several new procedures, including inversion, are introduced. Prerequisite: Mathematics 3A.
Fall (3) (Offered in 1940-41 and alternate years)
- 06 Projective Geometry** **Livingston**
 Concurrence of lines, collinearity of points and other properties of figures not altered by projections; construction and study of ellipses, hyperbolas and parabolas by means of projections. Prerequisites: Mathematics 3A.
Fall (3) (Offered in 1941-42 and alternate years)
- 11 Higher Algebra** **Walton**
 Linear dependence, matrices, quadratic forms, groups. Prerequisites: Mathematics 3A, 3B, 8, 4A, or permission of the instructor.
Fall (3) (Offered in 1940-41 and alternate years)
- 12 Higher Geometry** **Livingston**
 Analytic geometry of space, analytic projective geometry, higher plane curves. Prerequisites: Mathematics 3A, 3B, 8, 4A, or permission of the instructor.
Spring (3) (Offered in 1941-42 and alternate years)
- 18 Advanced Calculus** **Walton**
 Selected topics in advanced calculus, exclusive of differential equations. Prerequisite: Mathematics 4A-4B, or 4A with 4B taken concurrently.
Spring (2 or 3) (Offered in 1940-41 and alternate years)
- 19 Differential Equations** **Gleason**
 Ordinary differential equations of first and second order, with applications. Prerequisite: Mathematics 4B or permission of instructor.
Spring (2 or 3) (Offered in 1941-42 and alternate years)
- 140 Probability and Statistics** **Gleason**
 Statistical theory and method from the mathematical standpoint; applications in social and natural science. Prerequisites: Mathematics 4A-4B, and 8.
Spring (3) (Not offered in 1940-41)
- 199A-199B Special Study** **The Staff**
 An opportunity is offered for advanced work in algebra, geometry and calculus; or for study of vector analysis, or theory of numbers. Adapted to the needs of individual students. Prerequisite: at least six units of upper division courses in mathematics with an average grade of B, or senior standing; and permission of the instructor.
Fall or Spring (1 to 3, each semester)

MERCHANDISING

L20 Consumer Problems

Torber

Growing importance of consumption as a field for study; consumer incomes in the United States; consumption and business cycles; basis of consumer choice-making; practical problems of buying food, clothing, shelter, transportation, insurance, etc.; family budgeting; a survey of the methods by which products reach the consumer; market structure and functions seen from the consumer's point of view.

Fall (3)

L24 Principles of Merchandising

Torber

A study of retail stores, emphasizing the problems of store managers and merchandising executives; store location, organization, personnel, sales promotion, buying and handling of merchandise, inventory, turnover, and control methods. Changing conditions in retailing, problems of profitable operation under present conditions.

Spring (3)

L25 Principles of Salesmanship

Torber

Theoretical and psychological backgrounds of salesmanship, newer concepts of selling; the selling of ideas and services; steps in a sale: attention, interest, desire, closing; the development of clientele and of goodwill; the personal factor in salesmanship.

Fall (3)

L26 Applied Salesmanship

Torber

Classroom practice in selling; supervised work in cooperating stores, outside selling; relationships between theory and practice in specific selling situations; incentive methods of payment in selling; the problem of sales managers in reducing selling costs.

Spring (2)

L26A Life Insurance Salesmanship

Torber

A study of the special problems of life insurance selling, with emphasis on the psychological aspects of insurance selling, and on specific techniques for finding prospects, and for managing the sales interview. A course for students interested in life insurance selling, and for those planning to obtain life underwriter's certification. To be taken in conjunction with 26 (see above) and not available as a separate course.

Spring (26 and 26A, 3 units)

L27 Principles of Advertising

Torber

A survey of advertising from the points of view of the business man and the consumer; business principles applied to advertising; basic psychological appeals employed; market analysis as an advertising tool; budgeting of appropriations; selection of mediums; layout, art work, copy; publicity devices; institutional advertising; the function of agencies; radio as a specialized advertising problem.

Spring (3)

MUSIC

MUSIC

Candidates for a teaching credential in music should refer to the statement "Admission to Teacher Training Curricula" on page 28 and to the other degree requirements on that page and those following. The curriculum for the A.B. Degree with a Special Secondary Credential in Music on page 40.

Lower division preparation for the liberal arts major in music: Music 101C-101D; 104A-104B; 4 units of Applied Music (study of voice or orchestral instrument); and Aesthetics 101A-101B.

Liberal arts major (upper division): twenty-four upper division units. These shall include Music 105A-105B; 106A; 107A; 119; 120; 121A; 4 units of Applied Music; Aesthetics 102A-102B; and 4 units of music theory credit (Music 111, 112, 113, 115, or 126).

At least a C average in upper division music courses is necessary.

It is recommended that students in meeting degree requirements and in choosing free electives, select from the following courses: English 56A-B; French A-B; German A-B; History 4A-4B; 146A-B; Physics 142B.

LOWER DIVISION COURSES

A Music Reading and Ear Training—Fundamentals of Music

L. D. Smith
D. F. Smith

Basic elements of music; scale construction; elementary music theory; drill in music reading both with syllables and with words; ear training, elementary music dictation. Basic course for all general elementary credential students. Music majors receive no credit.

Autumn and Spring (2)

B Music Reading and Ear Training—Musicianship L. D. Smith

Interval and rhythmic dictation; rhythmic writing; sight singing. Basic course for music majors and minors. Text—Smith and Krone: Fundamentals of Musicianship Book I. Prerequisite: Music 1A, or the equivalent. Students not able to pass the departmental entrance examination in the fundamentals of music will take 1A without credit in preparation for this course.

Autumn and Spring (2)

C 101D Advanced Music Reading and Ear Training L. D. Smith

Interval work in minor keys; modal scales; dissonant triads and seventh chords; interval feeling in all chords; rhythmic progression and elementary forms; rhythmic, melodic and harmonic dictation. Prerequisite: Music 1B.

Spring course (2-2)

D 101A String Instrument Class

Leib

Beginner's class in violin, viola, 'cello and string bass. Required of all music majors working for a Special Secondary credential unless this orchestral section is the major or minor field.

Autumn and Spring (1)

MUSIC

L3A Woodwind Instrument Class.

Beginner's class in oboe, clarinet, flute and bassoon. Required of music majors working for a Special Secondary credential unless orchestral section is the major or minor field.

Fall and Spring (1)

4A-4B Elementary Harmony

Springs

Scale construction, intervals, by-tones and diatonic harmonies. Transposition and original composition in the simpler forms. Text—Alch Applied Harmony Vol. I. Prerequisite: Music 1A-1B, or the equivalent and at least one year of piano study.

Year course (3-3)

L6A Brass Instrument Class

Beginner's class in trumpet, French horn, baritone, trombone and tuba. Required of all music majors working for a Special Secondary credential unless this orchestral section is the major or minor field.

Fall and spring (1)

L7A Music Materials for the Elementary School

L. D. Sm

Study of the song material in the state music texts and in the supplementary texts. Appreciation materials applicable to the elementary school. Required course for all general elementary credential students. Prerequisite: Music 1A.

Fall and Spring (3)

8A-8B Keyboard Harmony and Accompanying

Springst

Practical application of the principles of elementary harmony. Prerequisite one year of piano study. At least one year of high school harmony is desirable.

Year course (2-2)

11A-B-C-D Women's Glee Club—Treble Clef

L. D. Smi

Entrance upon examination.

Fall and Spring ($\frac{1}{2}$ - $\frac{1}{2}$)

12A-B-C-D Men's Glee Club

Springst

Entrance upon examination.

Fall and Spring ($\frac{1}{2}$ - $\frac{1}{2}$)

13A-B-C-D Orchestra

Le

Permission of the conductor required for membership.

Fall and Spring (1-1)

15A-B-C-D A Cappella Choir

D. F. Smi

Entrance upon examination.

Fall and Spring ($\frac{1}{2}$ - $\frac{1}{2}$)

***L16A-L16B-L16C-L16D Individual Study of an Orchestral Instrument.**

Fall and Spring (1-1)

* See page 103, conditions under which credit may be given for music study under private instructors.

MUSIC

17A-L17B-L17C-L17D Individual Study of Voice

all and Spring (1-1)

18A-L18B-L18C-L18D Individual Study of Piano or Organ

erequisite: The ability to play artistically hymns and folk songs of the type found in the Golden Book of Favorite Songs.

all and Spring (1-1)

19A-B-C-D Chorus

D. F. Smith

Open to anyone interested in singing standard choral works. No examination required.

all and Spring ($\frac{1}{2}$ - $\frac{1}{2}$)

20A-B-C-D Band

Leib

Permission of the conductor required for membership.

all and Spring (1-1)

21A-27B Music for Enjoyment

Springston

Course designed for students with little or no musical background. Lectures and discussions as a basis for intelligent listening to concerts, radio programs, and class presentation of recorded music. Not open to music majors and minors.

year course (1-1)

28A-L28B Beginning Piano

Springston

Fundamental playing and reading technics for the pianoforte. Emphasis upon playing by ear, and the development of interpretative ability. No credit for music majors and minors.

year course (1-1)

29A-B Class Voice

D. F. Smith

Class for beginners in the vocal field taking up the problems of breath control, tone placement, articulation and enunciation. Frequent performance before class required. Limited to 15.

year course (1-1)

30A-B Chamber Music

Leib

String and woodwind ensembles. The consent of the instructor necessary for admission to class.

year course (1-1)

UPPER DIVISION COURSES

35A-105B Advanced Harmony and Composition

Springston

Study of the possible types of modulation and chromatic harmonies: continuation of harmonic analysis and original composition. Text Alchin: Applied Harmony Vol. II. Prerequisite: Music 4A-4B.

year course (3-3)

36A Counterpoint

D. F. Smith

Study of the five species of counterpoint with much practice in writing in each form. Application of contrapuntal style to modern composition. Prerequisite: Music 4A-4B.

all (2)

See page 103, conditions under which credit may be given for music study under private instructors.

107A Form and Analysis

D. F. Sm

Aural and visual analysis of music forms through a consideration of structure, harmonic content, and style. Prerequisite: Music 105A-105C
Spring (2)

111A-B-C-D Women's Glee Club—Treble Clef

L. D. Sm

Entrance upon examination.

Fall and Spring ($\frac{1}{2}$ - $\frac{1}{2}$) (A maximum of 2 units in glee club may be counted toward the A.B. degree)

112A-B-C-D Men's Glee Club

Springst

Entrance by examination.

Fall and Spring ($\frac{1}{2}$ - $\frac{1}{2}$) (A maximum of 2 units in glee club may be counted toward the A.B. degree)

113A-B-C-D Orchestra

L

Permission of the conductor required for membership.

Fall and Spring (1-1) (A maximum of 4 units in orchestra may be counted toward the A.B. degree)

115A-B-C-D A Cappella Choir

D. F. Smi

Entrance by examination.

Fall and Spring ($\frac{1}{2}$ - $\frac{1}{2}$) (A maximum of 2 units in A Cappella choir may be counted toward the A.B. degree)

***L116A-L116B-L116C-L116D Advanced Individual Study of :
Orchestral Instrument**

Fall and Spring (1-1)

***L117A-L117B-L117C-L117D Advanced Individual Study of Voice**

Fall and Spring (1-1)

***L118A-L118B-L118C-L118D Advanced Individual Study of Piar
or Organ**

Fall and Spring (1-1)

119A Instrumental Conducting

Lei

Conducting and reading of orchestral scores.

Fall and Spring (1)

120A Vocal Conducting

D. F. Smit

The theory of vocal conducting together with practical experience gained from directing the college chorus. Prerequisite: Music majors with senior standing.

Fall and Spring (1)

121A Instrumentation

Lei

Arranging of music for full orchestra. Selected works of pupils to be performed by standard orchestras.

Spring (2)

* See page 103, conditions under which credit may be given for music study under private instructors.

PHILOSOPHY

26A-B-C-D Band

Leib

Permission of the conductor required for membership.

Fall and Spring (1-1) (A maximum of 4 units in band may be counted toward the A.B. degree)

30A-130B Chamber Music

Leib

String quintet and woodwind ensembles only. Permission of the instructor necessary for class membership. *Note the designation for this course as been changed from 103A-103B to 130A-130B*

Year course (1-1)

CONDITIONS UNDER WHICH CREDIT MAY BE GIVEN FOR MUSIC STUDY UNDER PRIVATE INSTRUCTORS

Credit may be allowed for private instruction in music under the following conditions:

1. The applicant for such credit must be a regularly enrolled student in the music department of the college.

2. The instructor giving such private work must be a regularly State-certificated teacher, or else be approved by the Music Department. All private work and the names of all such teachers must be registered in the office of the music department chairman at the beginning of the semester.

3. In the case of first semester private study, a placement examination conducted by the music department faculty at the beginning of the semester will show the status of the student at the beginning of his work.

4. Evidence that the standards of the Music Department have been met will be shown by an examination conducted by the music department faculty at the end of the semester.

PHILOSOPHY

LOWER DIVISION COURSES

A Introduction to Philosophy

Steinmetz

the recurring problems of philosophy and the making of the modern mind. Prerequisite: Sophomore standing, or consent of instructor.

Fall (3)

B Knowledge and Society

Steinmetz

scientific method and the persistent topics of philosophy in their bearing upon the social problems of the day. Prerequisite: Philosophy A, except that sophomores planning to major in natural science may be admitted without prerequisite.

Spring (3)

UPPER DIVISION COURSES

5B Knowledge and Society

Steinmetz

same as Philosophy 5B, except that upper division students will be held to more exacting contribution.

Spring (3)

120 Reflective Thinking (Logic)

Steinm

Analysis of fallacies, and the logic of argument and proof; also examination of reflective procedures in various fields of knowledge, and review of some psychological descriptions of thought. Prerequisites: Psychology and Philosophy 5A.

Spring (3) (Offered in 1940-41 and alternate years)

130 Conduct (Ethics)

Steinme

The meaning of morality; motives and sources of belief, aspiration, idealism; psychological and sociological factors; representative ethical systems; relation of ethics to other axiological studies.

Spring (3) (Offered in 1941-42 and alternate years)

PHYSICAL EDUCATION

Men's Department

Candidates for a teaching credential in physical education should refer to the statement "Admission to Teacher Training Curricula" on page 1. For the teacher training curriculum in physical education see page 1.

LOWER DIVISION COURSES

A two-hour activity course each semester is required for the two years of lower division. A medical examination is given each student when entering and the work is fitted, as far as possible, to his needs. The content of the required two years is planned to give each student an opportunity to choose those sports which have carry-over value into after life. Opportunity is given all students to take part in the regular competitive sports program.

All lower division students are required to take one-half unit of physical education not including intercollegiate sports.

L1A-L1B Freshman Activity

Year course, beginning either Fall or Spring ($\frac{1}{2}$ - $\frac{1}{2}$)

L1C-L1D Sophomore Activity

Year course, beginning either Fall or Spring ($\frac{1}{2}$ - $\frac{1}{2}$)

Class sections are so arranged that the student may choose the activity he is most desirous of learning. Fundamentals of the sports listed are taught during the class hour.

Intercollegiate Sports

L2A-L2B-L2C-L2D Golf Spring (1)

L3A-L3B-L3C-L3D Track Spring (1)

L4A-L4B-L4C-L4D Baseball Spring (1)

L5A-L5B-L5C-L5D Basketball Spring (1)

L6A-L6B-L6C-L6D Tennis Spring (1)

L7A-L7B-L7C-L7D Boxing Spring (1)

PHYSICAL EDUCATION—MEN

- 1A-L8B-L8C-L8D Wrestling Spring (1)
- 1A-L9B-L9C-L9D Cross Country Fall ($\frac{1}{2}$)
- 10A-L10B-L10C-L10D Swimming Spring (1)
- 11A-L11B-L11C-L11D Fencing Spring (1)
- 13A-L13B-L13C-L13D American football Fall (1)
- 13X-L13Y-L13Z Spring football Spring ($\frac{1}{2}$)
- 14A-L14B-L14C-L14D Gymnastics Spring (1)
- 15A-L15B-L15C-L15D Badminton Spring (1)

The following courses fulfill degree requirements for physical education majors and meet State requirements for teaching credentials in physical education.

Emergencies

C. R. Smith

The accepted procedure in meeting the emergencies which daily arise in schoolroom, play or athletic field, beach, mountains, or any of the many places where the physical director is called on for first aid. Special attention given to the arrangement of the apparatus and the activities so that many of the most common accidents are prevented or minimized.

Fall (1)

53 Physical Education in the Elementary School

Schwob

The content of the State program in physical education forms the basis of the course. Two lectures, two one-hour laboratory periods per week. May be taken as a substitute for 1D.

Required of all candidates for the elementary school credential and the special credential in physical education.

Fall and Spring (2 $\frac{1}{2}$)

52A Gymnastic Activities

C. E. Peterson

Theoretical and practical work in marching, free exercises, and light and heavy apparatus. Emphasis on progression and method of presenting material. The simplest and most explanatory terminology.

Fall (2) (Offered in 1941-42 and alternate years)

62B Gymnastic Activities

C. E. Peterson

Acquisition of proficiency in the performance of a great group of gymnastic stunts always popular in the gymnasium and on the playground. Work of the recreational or self-interesting type rather than the formal. Tumbling, stunts, and pyramid-building given chief attention, although games of low organization are also considered.

Spring (2) (Offered in 1941-42 and alternate years)

66 Playing Rules of Modern Games

C. R. Smith

Thorough study of latest rules of modern major and minor sports.

Fall and Spring (1)

72 Principles of Physical Education

Calland

Cultivation of a favorable attitude for a professional study of physical

PHYSICAL EDUCATION—MEN

education. Ideals and aims of physical education and the relation of physical education to school and society stressed.

Fall (2)

UPPER DIVISION COURSES

L154 Organization and Administration of Secondary Physical Education

Gro

Study of general and specific problems that confront physical education departments in junior and senior high schools and in colleges. Prerequisite: Physical Education L72.

Spring (3)

L155 Applied Anatomy

C. E. Peters

Mechanics of the human skeletal and muscular systems and their action in games, formalized activities, and general body movements; mechanical strength and durability as influenced by anatomical factors.

Spring (2) (Offered in 1941-42 and alternate years)

L156A Sports Methods

Gross, C. R. Smi

Different theories and methods of teaching the more highly organized sports: basketball and baseball.

Fall (2) (Offered in 1940-41 and alternate years)

L156B Sports Methods

Calland, C. E. Peters

Methods of teaching those sports most adaptable to intramural and interclass competition: golf, handball, soccer, speedball, volley ball, badminton, tennis and track.

Spring (2) (Offered in 1940-41 and alternate years)

161 Folk Dancing

Schw

Practice in folk and clog dancing. Methods of presentation, study of costumes and customs related to the dance. Notebooks required. Open to all upper division men and women.

Spring (2) (Offered in 1941-42 and alternate years)

L166 Technique of Officiating

Gros

Review of material presented in Physical Education L66. Methods of officiating all the sports common to the school or college program; also methods of training student officials. Practice in the handling of elementary, junior high, senior high and intramural college competition. Prerequisite: Physical Education L66.

Spring (2)

L168 Physiology of Exercise

Bennet

A non-laboratory course emphasizing the relation of physiology to muscular exercise in physical activities. Prerequisite: Zoology 20 or the equivalent.

Spring (2) (Offered in 1940-41 and alternate years)

L169 Technique of Teaching Activities

Physical Education Staff

Directed leadership in activities. A course preliminary to practice teaching in which students are given opportunity to develop leadership and teaching technique.

Spring and Fall (1-2)

70 Recreational Leadership

Shafer

fundamentals of recreational leadership developed by instruction in out craft, Camp Fire lore, Girl Reserve activities, the study of school recreational needs and facilities, and of civic recreation. Open to all upper division men. Recommended to students interested in the recreational aspects of social service.

ring (2) (Offered in 1940-41 and alternate years)

80 Theory of Coaching Football

Calland

Methods of coaching football. Details of teaching individual fundamentals, offensive and defensive team play, strategy, and conditioning of athletes. Two hours of lecture and three hours of laboratory.

ring (2)

90 Individual Program Adaptation

Young

An introductory course dealing with the analysis and evaluation of aims, techniques, and procedures in the preventive and corrective physical education program. Special emphasis will be given to such problems as survey of the situation, recognition of divergencies, selecting and assigning of students, instructional programs, motivation, follow-up, teacher negotiations, and public relations. Prerequisite: P. E. 155, Zoology 20, and senior standing.

all (3)

WOMEN

Women's Department Candidates for a teaching credential in physical education should refer to the statement "Admission to Teacher Training Curriculum" on page 28, and to the outline for the A.B. Degree with Special Credential in Physical Education on pages 45 and 46.

LOWER DIVISION COURSES

Two hours of directed physical activity are required throughout the freshman and sophomore years. Freshman students may choose courses from the following, L1A, L1B, L1C. Sophomore students may choose from the activity courses offered.

L1A Fundamental Skills

Bennett

Practice in efficient fundamental body movements.

all and Spring (½)

L1B Folk Dancing

Pease

L1C Rhythmic Skills

Pease

fundamental movements, simple dance forms and improvization. Required of all Freshmen. Both L1B and L1C required of all women candidates for the special credential in physical education.

all and Spring (½)

Sophomores may elect from the following: Physical Education Staff

L2A-L2B Folk Dance

L3A-L3B-L3C-L3D Modern Dance

L4A-L4B Social Dance

PHYSICAL EDUCATION—WOMEN

L5A-L5B Archery

L6A-L6B Badminton

L7A-L7B Golf

L8A-L8B-L8C-L8D Seasonal Sports

L9A Stunts and Tumbling

L10A-L10B-L10C Swimming and Life Saving

L11A-L11B Tennis

L12A-L12B Advanced Modern Dance Laboratory experiments in vanced choregraphy and percussion accompaniment. For men and women. Prerequisites 1C and 3A for women, 1C for men.

Fall and Spring (1-1)

Any of the above activities may be taken for additional credit.

51 Safety Education

Benn

Prevention of accidents: practical application of first aid methods leading to American Red Cross First Aid Certificate.

Fall (1) (Offered in 1940-41 and alternate years)

L53 Physical Education in the Elementary School

Schw

The content of the State program in physical education forms the basis of the course. Two lectures, two one-hour laboratory periods per week. Required of all candidates for the elementary school credential and the special credential in physical education.

Fall and Spring (2½)

Sports

1. The individual activities, swimming, tennis, golf, archery, badminton and dancing are offered through the year. Candidates for the special credential in physical education select *one* as a major activity and two others as minors. Skills in the activities thus selected must be maintained as prerequisite to the senior course, Physical Education L18 (See page 110.)

2. The seasonal group sports are volley ball, basketball, hockey, speed ball or soccer, and baseball. Candidates for the special credential in physical education must participate in at least *two seasons of each*.

3. The Women's Athletic Association sponsors the intramural sports program. Under its direction competition in dual and group games is promoted throughout the year. Open to all college women.

UPPER DIVISION COURSES

Open to all Women. Required of women candidates for the special credential in physical education.

L153 Administration of Secondary Physical Education

Schw

Study of administrative problems applied to high school situation including organization of instructional and recreational programs, classification of students, and routine administration.

Spring (2) (Offered in 1940-41 and alternate years)

- 55 Applied Anatomy** **Young**
Men's program.
mechanics of the human skeletal and muscular systems and their actions in games, formalized activities, and general body movements; mechanical strength and durability as influenced by anatomical factors.
Spring (2)
- 67A-L157B Sports Methods** **Shafer**
Practice for skill, study of rules, and of coaching methods. Prerequisite: season's experience in at least four of the following sports: volleyball, basketball, hockey, speedball, soccer, baseball.
Four course (2-2)
- 68 Principles of Teaching Gymnastics** **Schwob**
Gymnastic materials and methods followed by practice in teaching marching, gymnastics and use of apparatus.
Fall (2) (Offered in 1941-42 and alternate years)
- Folk Dancing** **Schwob**
Practice in folk and clog dancing. Methods of presentation, study of costumes and customs related to the dance. Notebooks required. Open to all upper division men and women.
Spring (2) (Offered in 1941-42 and alternate years) Open to men and women.
- 69A-L164B Methods in Modern Dance** **Pease**
Laboratory experiments in advanced choreography and percussion accompaniment. Historical survey and practical experience in production techniques and teaching methods. Two activity periods and one lecture per week. For men and women. Prerequisites same as for L12A.
Four course (2-2) (Offered in 1940-41 and alternate years)
- 70 Physiology of Exercise** **Bennett**
Non-laboratory course emphasizing the relation of physiology to muscular exercise in physical activities. Prerequisite: Zoology 20 or the equivalent.
Spring (2) (Offered in 1940-41 and alternate years)
- 71 Technique of Teaching Activities** **Schwob**
Observation, lesson planning and teaching in college classes.
Fall and Spring (3)
- Recreational Leadership** **Shafer**
Fundamentals of recreational leadership developed by instruction in club and camp activities, the study of school recreational needs and facilities, and of civic recreation. Open to all upper division men and women. Recommended to students interested in the recreational aspects of social science.
Spring (2) (Offered in 1940-41 and alternate years)
- 73 Principles of Physical Education** **Schwob**
Study of the more significant influences shaping the trend of physical education in the past and present. General philosophy and principles of physical education and its relation to general education.
Fall (2) (Offered in 1940-41 and alternate years)

L177 Individual Program Adaptations

Schy

Adjustments of the physical education program to the physical needs and capacities of individuals: problems concerning protective and preventive measures which are not highly specialized corrective phases.

Spring (2) (Offered in 1940-41 and alternate years)

L185 Technique of Individual Sports

Sha

A course summarizing rules, teaching methods, and individual playability. A required senior course. Can not be taken until all requirements regarding sports and games have been fulfilled. (See page 10.)

Fall (1)

PHYSICAL SCIENCES

ASTRONOMY

Lower division preparation in Astronomy desirable for advanced work in Astronomy 1, 2, 3, and 9; Mathematics 3A-3B, 4A-4B; Physics 1A-1B and 1C-1D; a reading knowledge of French and German desirable.

LOWER DIVISION COURSES

1 Descriptive Astronomy

C. E. Sm

A cultural course planned to develop an appreciation of astronomy with special emphasis on the solar system. Only calculations of an elementary nature are used. Especial attention given to the methods and instruments by means of which astronomical knowledge has been gained. A six-inch John Byrne telescope is available for observation. Prerequisites: Elementary algebra and plane geometry.

Fall and Spring (3)

2 Modern Astronomy

C. E. Sm

A study of sidereal astronomy and astrophysics in the light of modern research, especially photographic and spectographic. Prerequisite: Astronomy 1 and a knowledge of physics or permission of the instructor.

Note the designation of this course has been changed from 11 to 2.
Spring (3)

3 Surveyor's Course in Practical Astronomy

C. E. Sm

The principles of spherical astronomy adapted to the needs of engineering students. Computation and observation. Prerequisites: Surveying 1A or permission of the instructor. Astronomy 1 and 9 desirable.

Spring (2) (Offered in 1941-42 and alternate years)

9 Practice in Observing

C. E. Smit

A laboratory course designed particularly to go along with and to supplement Astronomy 1. The course will include constellation study, use of astronomical coordinates, elementary methods of determining time and latitude, and descriptive observations of celestial objects with the six-inch telescope. Prerequisite: Astronomy 1 or registration in Astronomy 1 or permission of the instructor.

Fall and Spring (1)

Elementary Navigation

C. E. Smith

study of compass corrections, drift problems, time, line of position, of celestial coordinates, Bowditch Tables, etc. A few class hours at close of the term are devoted to the use of tables such as Ageton or Bessel for the solution of astronomical triangle. Offered if demand sufficient.

Spring (2)

Elementary Astronomy

C. E. Smith, Watson

survey course planned to acquaint the student with the more important facts pertaining to both the solar system and to the stars. The first part of the course is devoted to the study of the earth as an astronomical body and to the other planets. The latter part is devoted to a study of the sun and stars. *Note the designation of this course has been changed from L40 to L41.*

Fall and Spring (3)

UPPER DIVISION COURSES

Special Problems

C. E. Smith

admission by consent of instructor. Credit and hours to be arranged in each case. Open to students who have completed three units in astronomy.

Fall and Spring (1 or 2)

Historic Development of Astronomy

C. E. Smith

study of the more important problems and astronomical concepts in the light of their historical development. Particular attention is given to the biography and contributions of the more important astronomers, such as, Galileo, Kepler, Newton, Herschel, and Bessel.

Spring (3) (Offered in 1940-41 and alternate years)

Method of Least Squares and Computing Practices

C. E. Smith

fundamental principles and processes and applications in the fields of astronomy, physics, and engineering.

Spring (3) (Offered in 1941-42 and alternate years)

CHEMISTRY

Upper division preparation for the liberal arts major in chemistry: Chemistry 1A-1B with an average grade of C or better, Chemistry 7-8, Physics 2B and 3A-3B or their equivalent, Mathematics 3A-3B or the equivalent, and a reading knowledge of German. Students planning to do graduate work in chemistry or to transfer to another college, and there work a degree with a major in chemistry, are advised to take Physics 1A-1C-1D and Mathematics 3A-3B-4A-4B in place of the courses listed above.

Liberal arts major (upper division): A minimum of twenty-four upper division units in chemistry including Chemistry 105A-105B, 110A-110B and 111A-111B. The choice of related minors and the organization of the course of the major student must follow a definite plan approved by the department.

For requirements for liberal arts major in physical science, see page 115.

PHYSICAL SCIENCES—CHEMISTRY

LOWER DIVISION COURSES

1A-1B General Chemistry

Robin

The general principles and laws of chemistry, and a description of elements and their compounds. Two lectures, one quiz and two laboratory periods per week. The laboratory work in the second semester consists of work in qualitative analysis. Prerequisites: At least two years high school mathematics. Recommended: High school chemistry and physics.

Year course (5-5)

2A-2B General Chemistry

Nich

A general course for those not intending to take advanced courses in chemistry. The work in the first semester stresses inorganic chemistry and fundamental principles; that of the second semester covers an introduction to organic and biochemistry. Emphasis placed on application of chemistry to everyday life. Two lectures and one laboratory period per week. Required of prenursing students and recommended for those desiring chemistry as part of a liberal education.

Year course (3-3)

7-8 Organic Chemistry

Robins

A general consideration of the carbon compounds (both aliphatic and aromatic) and their derivatives; their synthesis, constitution, and properties, and the principles involved. Two lectures and one laboratory period per week first semester; one lecture and two laboratory periods per week second semester. Prerequisite: Chemistry 1A-1B.

Year course (3-3)

UPPER DIVISION COURSES

105A Quantitative Analysis

Messr

The principles of gravimetric and volumetric analysis. Discussions of the theory of quantitative analysis and practice in the standardization of reagents and analysis of samples. One lecture and two laboratory periods per week. Prerequisite: Chemistry 1A-1B.

Fall (3)

105B Advanced Quantitative Analysis

Messr

Advanced work in the theory and practice of volumetric, gravimetric and electro-analysis. One lecture and two laboratory periods per week. Prerequisite: Chemistry 105A.

Spring (3)

110A-110B Physical Chemistry

Nich

Lectures and problems on theoretical principles of chemistry. Prerequisites: Physics 1A-1B or 2A-2B and Chemistry 105A which may be taken concurrently. With the approval of the instructor, advanced courses in physics may be substituted for Chemistry 105A.

Year course (3-3)

111A-111B Physical Chemistry—Laboratory

Nich

Physico-chemical problems and measurements. Two laboratory periods per week. Prerequisites: Credit or registration in Chemistry 110A-110B.

Year course (2-2)

Industrial Analysis

Robinson

laboratory course including the analysis of fuels, petroleum products, oil, and gas. Prerequisite: Chemistry 105A which may be taken concurrently.

Offered in 1941-42 and alternate years

Biochemistry

Messner

introductory lecture course covering the carbohydrates, proteins, fats and the changes which they undergo in digestion and metabolism as well as a consideration of the vitamins and other accessory food factors and their importance to the body. A brief discussion of the chemistry of plant life. Prerequisites: Credit or registration in Chemistry 110A-110B.

Offered in 1940-41 and alternate years

Colloid Chemistry

Messner

lecture course covering the theoretical principles of colloid chemistry and the preparation, properties and practical applications of colloids. Prerequisite: Chemistry 110A-110B.

Offered in 1941-42 and alternate years

124 Organic Preparations

Robinson

laboratory course illustrating some of the more important synthetic methods of organic chemistry. Laboratory and conferences. Prerequisite: Chemistry 7-8. A reading knowledge of German recommended.

Offered in either Fall or Spring (1 to 5-1 to 5)

History of Chemistry

Robinson

development of the science of chemistry from the time of the alchemists to the present. Conducted on the reading, report, and seminar basis. Prerequisite: Chemistry 7, 8.

Offered in 1940-41 and alternate years

Advanced Inorganic Chemistry

Robinson

detailed study of the Periodic Table. Discussion of complex inorganic compounds and oxidation-reduction potentials. Prerequisite: Chemistry 1-1B and upper division standing.

Offered in 1940-41 and alternate years

4 Industrial Chemistry

Robinson

industrial stoichiometry, flow sheets, flow of fluids and unit processes. Lectures, problems, and reports. Prerequisites: Chemistry 1A-1B, Physics 1-1B or 2A-2B.

Offered in 1941-42 and alternate years

9 Special Topics

Instructors of the Department

supervised individual work in specialized branches of chemistry such as colloid chemistry, biochemistry, applications of the phase rule, etc. Admission only by the consent of the instructor. Hours and credit to be arranged in each case. Only open to upper division students who have shown their ability to do A or B work in Chemistry.

Offered in Spring (1-3)

GEOLOGY

Department requirement in Geology for liberal arts major in Physical Science includes in addition to Geology 1A-1B, the completion of: Chemistry 1A-1B, Mathematics 3A; Physics 1A-1B-1C-1D or 2A-2B; 3A-3B. Students preparing for advanced work in Geology may substitute Engineering 21 for Mathematics 3A. Geology 2A may be substituted for Geology 1A in prerequisite requirements provided the additional necessary unit of laboratory work is completed.

French or German, Engineering 1A-1B and Geology 21A-21B are recommended.

LOWER DIVISION COURSES

1A Physical

The composition, origin, and distribution of earth materials, and their modification through mechanical and chemical processes of change. Through lectures and one three-hour laboratory period weekly with related field study during the semester. (Not open to students who have had Geology 2A except for one unit upon the completion of the laboratory section.)
Fall (4)

1B Historical

Theories of earth origin, and the evolutionary history of the earth traced through rock and fossil records. Consideration of the Paleontologic Sequence. Three lectures and one three-hour laboratory period weekly, with arrangement for field study and conference during the semester. Prerequisite: Geology 1A or equivalent.
Spring (4)

2A General

Similar to Geology 1A but *without* laboratory. Open to all students except physical science majors or those already presenting credit in Geology 1A. Two lectures and one demonstration and discussion hour weekly.
Fall (3)

2B Physiography

A study of the land forms of the United States and their physiographic history as illustrative of universal geologic conditions. Two lectures and one discussion hour weekly. Prerequisite: Geology 1A or 2A.
Spring (3)

21A-21B Mineralogy

Study of the common minerals and rocks. Use of the blowpipe and simple chemical reagents but with emphasis upon sight determination. Prerequisite: Geology 1A and high school chemistry, or equivalents.
Year course (3-3) (Offered in 1941-42 and alternate years)

L40 General Geology

An elementary course dealing with those processes of nature by which the surface of the earth is built up, deformed and torn down. A study of the natural history and occurrence of the common rocks and minerals.
Note the designation for this course has been changed from 5 to L40.

PHYSICAL SCIENCES—PHYSICAL SCIENCE

UPPER DIVISION COURSES

0 Structural Geology

Brooks

the evolution and description of the structural and topographical features of the earth. Faulting, folding, and orogenic forces with practical illustrations from the North American Continent and emphasis on California geologic conditions. Lectures, discussions, and occasional field trips. Prerequisite: Geology 1A-1B.

Fall (3) (Offered in 1940-41 and alternate years)

1 Geologic Problems

Brooks

reconnaissance of adjacent areas with elementary mapping; or directed reading and group discussion of California Geology; or selection and preparation of materials for the museum collections. Prerequisite: Geology 1A-1B. Registration subject to approval of instructor.

Spring (1-4)

PHYSICAL SCIENCE

Upper division preparation for the liberal arts major in physical science and for the junior certificate: Fulfillment of the departmental requirements for upper division work in at least two of the following sciences: astronomy, chemistry, geology, and physics. Recommended: A reading knowledge of French and German.

Liberal arts major (upper division) in physical science, required: Twenty-four units of upper division work in two or more of the physical sciences: chemistry, geology, and physics, with a minimum of six units in each of two of these sciences.

LOWER DIVISION COURSE

A Introduction to Physical Science

Watson

A survey course dealing with the nature of man's physical universe. Emphasis will be upon materials chosen from topics in astronomy and physics in order to give a background for some understanding of modern physical science and the scientific method. Not open to students who have had high school or college physics or astronomy. May be taken with or without plans to continue with 1B.

Fall and Spring (3)

B Introduction to Physical Science

Watson

A continuation of physical science 1-A. Emphasis will be upon materials chosen from topics in geology and chemistry in order to give a background for some understanding of modern physical science and the scientific method. Not open to students who have had high school or college chemistry or geology. May be taken with or without credit in physical science 1-A.

Fall and Spring (3)

40 Survey of Physical Science

Watson

A brief survey of the nature of the scientific method and of selected topics in physical science. Materials will be chosen from physics, chemistry, astronomy, and geology in order to give some background for an understanding of modern scientific thought. Not open to students who have had both high school or college physics and chemistry or

PHYSICAL SCIENCES—PHYSICS

either of these and astronomy or geology. *Note the designation for t course has been changed from 5 to L40.*

Fall and Spring (3)

PHYSICS

Lower division preparation for the liberal arts major in physics and the junior certificate: Physics 1A-1B-1C-1D; Chemistry 1A-1B; Mathematics 3A-3B and 4A-4B, or their equivalents. Recommended: A reading knowledge of French and German.

Liberal arts major (upper division) in physics, required: Twenty-four units of upper division work in physics including Physics 105A-105B and 110A-110B. Six of the twenty-four units may be elected in related subjects and deviations from these requirements may be made on consultation with the chairman of the department.

LOWER DIVISION COURSES

1A-1B General; Mechanics and Heat

Moe, Worley

Mechanics, properties of matter, and heat. A development of the fundamental ideas which underlie the subject of physics, and the application of them in the discussion of practical problems. Lectures, text assignment problem sets, and experimental laboratory work. Two lectures, and one laboratory period each week. Prerequisites: High school physics or chemistry, and trigonometry. Students deficient in any part of this requirement may enroll only with the permission of the instructor.

Year course (3-3)

1C-1D General; Electricity, Magnetism, Sound, and Light

Baird

A continuation of Physics 1A-1B for students in the sophomore year. Two lectures and one laboratory period each week.

Year course (3-3)

2A-2B General

Baird

Properties of matter, mechanics, heat, sound, light, electricity, and magnetism. A nonengineering course. Lectures, demonstrations, and discussions. Prerequisite: Two years of high school mathematics.

Year course (3-3)

3A-3B Physical Measurements

Worley

Laboratory work in mechanics, properties of matter, heat, sound, light, electricity, and magnetism. Usually taken in conjunction with Physics 2A-2B.

Year course (1-1)

UPPER DIVISION COURSES

105A-105B Analytical Mechanics

Moe

Treatment of fundamental principles of statics, kinematics and dynamics of particles and rigid bodies. Prerequisites: Physics 1A-1B or 2A-2B and a working knowledge of calculus.

Year course (3-3) (Offered in 1940-41 and alternate years)

- 106 Optics** **Baird**
 refraction, color, interference, diffraction, polarization, radiation, and optical instruments. Prerequisite: Eight units in physics.
fall (3) (Offered in 1940-41 and alternate years)
- 107A-107B Electrical Measurements** **Worley**
 experimental study of the theory and use of electrical measuring instruments. Designed to accompany 110A-110B.
year course (1 or 2 units for the year)
- 108 Modern** **Baird**
 an introductory survey of the problems of modern physics. Theories of atomic structure and series in optical spectra, radioactivity, conduction of electricity through gases, radiation and the quantum theory. Prerequisite: Eight units in physics.
spring (3) (Offered in 1940-41 and alternate years)
- 110A-110B Electricity and Electromagnetism** **Worley**
 elements of the mathematical theory of electrostatics, of magnetostatics and magnetism, of steady and varying currents, and of electron theory, with illustrative applications.
 It is usually expected that students taking this course will accompany it with some laboratory work in electrical measurements.
year course (3-3) (Offered in 1941-42 and alternate years)
- 112 Advanced Heat** **Moe**
 thermal properties of matter. An introduction to the kinetic theory of gases and the laws of thermodynamics. Prerequisites: Eight units in physics and a working knowledge of calculus.
spring (3) (Offered in 1941-42 and alternate years)
- 112L Advanced Heat Laboratory** **Moe**
 laboratory work in advanced heat, designed to accompany Physics 112.
spring (1) (Offered in 1941-42 and alternate years)
- 114 Wave Motion and Sound** **Moe**
 a study of wave motion and its applications to sound production and transmission. The principles of musical instruments and architectural acoustics. Prerequisite: Eight units in physics.
fall (3) (Offered in 1941-42 and alternate years)
- 114L Sound Laboratory** **Moe**
 laboratory work in wave motion and sound, designed to accompany Physics 114.
fall (1) (Offered in 1941-42 and alternate years)
- 199 Special Study** **Baird, Moe**
 reading or work on special problems in physics. Admission by consent of the instructor. Credit and hours to be arranged in each case. Open to students who have completed at least eight units of work in the department with grade of A or B.
fall and Spring (1 or 2-1 or 2)

PSYCHOLOGY

PSYCHOLOGY

Lower division preparation in psychology for advanced work and the junior certificate. Required: Psychology 1A-1B, Zoology 1A-1B, or Biological Science 10A-10B, Philosophy 5A-5B. Recommended: French, German, chemistry, physics, and anthropology.

LOWER DIVISION COURSES

1A General

An elementary survey of normal adult psychology, focused upon personality; the subjective and objective aspects of behavior. Furnishes basis for all other courses in psychology. Prerequisite: Sophomore standing. *Fall and Spring (3)*

1B General

A continuation of general psychology designed to familiarize the student with (1) elementary experimental methods, (2) famous experiments in psychology, and (3) some one topic (not included in upper division courses) in which he pursues an independent experimental approach. Prerequisite: Psychology 1A.

Spring (3)

4A Applied

Applications of psychology to problems of the individual in learning, making social adjustments, choosing a vocation, developing desirable personal traits, and achieving success and happiness. Survey of psychology as applied in education, music, art, speaking, writing, law and medicine. Prerequisite: Psychology 1A. Recommended: Psychology 1B.

Fall (2)

4B Psychology Applied in Business

Applications of psychology to a wide range of problems encountered by the man in business. Motives, attitudes, habits, and traits in their relation to behavior of employer, employee, and executive. Advertising, salesmanship, and problems of selecting, placing and increasing the efficiency of employees. Business cycles, and business research. Prerequisite: Psychology 1A. Recommended: Psychology 1B and Psychology 4A.

Spring (2)

L40 Psychology and Life

An elementary survey of normal adult psychology, focused upon psychological principles in relation to life situations.

Fall and Spring (3)

UPPER DIVISION COURSES

102 Genetic (Growth and Development of the Child)

Steinmetz

The mental and physical growth and development of the child, especially with relation to norms of structure and function. Diagnosis of individual children by comparison with norms. Behavior problems and the growth of personality traits as conditioned by physical and mental factors. An intensive study of one child presenting a problem of physical or mental maladjustment made by each student. Prerequisite: Psychology 1A. Recommended: Psychology 1B.

Fall and Spring (3)

SECRETARIAL TRAINING

5 Mental Testing

brief history of intelligence testing and the fundamental assumptions underlying the construction of tests. The Stanford revision of the Binet-mon test illustrated by demonstrations. Each student required to give at least 20 individual tests. Group intelligence tests discussed and demonstrated. Prerequisites: Psychology 1A and Education 108. Recommended: Psychology 1B, 102, Education 140.

Fall (3)

8 Mental Hygiene

problems, personality adjustment, emotional problems, attitudes, conducts, neurotic behavior, conduct disorders of both child and adult. The beginnings of undesirable attitudes and habits and methods of treating them are stressed more than serious cases of maladjustment which are either incurable or problems for a psychiatrist. The methods of building wholesome personality are emphasized more than the analysis of extreme disorders. Prerequisite: Psychology 1A. Recommended: Psychology 1B, 102.

Fall or Spring (3)

5 Social Psychology

Steinmetz

personality as it develops in relation to social environment. Suggestion, imitation, leadership, the crowd, public opinion, social control, prejudice, propaganda, sex differences, race differences, etc. Prerequisite: Psychology 1A. Recommended: Psychology 4A.

Fall and Spring (3)

10 Abnormal Psychology

Steinmetz

the relation of psychology to the psycho-neurosis and insanity; the appearance of abnormal traits in incipient stages of mental disturbances. Methods of diagnosis and early treatment.

Spring (3)

10 Experimental Psychology of Learning

introduction to instrumental and comparative psychology and to methods of research in the development of behavior theory. Prerequisite: 5 units of other work in the department and consent of the instructor; required for those seeking a major.

Fall (3)

SECRETARIAL TRAINING

A Business Mathematics

Bromley

practical course in the mathematics of business. A thorough study of interest, compound interest, discount, amortization tables, insurance rates, etc.

Fall and Spring (1) (No degree credits in Liberal Arts curricula)

1A-L1B Typewriting

Amsden

rapid development of a thorough command of a keyboard by the touch method. The acquisition of speed and the artistic arrangement of typewritten material with special reference to commercial forms, tabulation and billing; specifications, legal forms, and preparation of manuscripts; transcription, mimeographing, etc. Eight hours lecture and laboratory practice.

SOCIAL SCIENCES

Year course (3-3) (No credit will be counted toward A.B. degree requirements except in the curricula leading to the Business Education credential)

L2A Typewriting

Amsd

A short course designed for those not wishing to enter the business office but desiring a knowledge of the use of the typewriter. Five hours laboratory practice.

Spring (2)

L3A Office Methods and Appliances

Wrig

Practice and principles of office management, including organizational arrangement and operation. Study and use of modern office appliances such as the multigraph, mimeograph, filing devices, calculating and bookkeeping machines. Prerequisite: Secretarial Training 1A or its equivalent.

Fall and Spring (3)

L5A-L5B Stenography

Amsd

An intensive course designed for the practical preparation of office secretaries. A thorough study of the Gregg System. Development of the ability to read and write shorthand rapidly and correctly, both literary and commercial. The shorthand speed necessary to pass a civil service examination is attained by the end of the year.

Year course (5-5)

L6A-L6B Advanced Stenography

Amsd

Development of speed in writing and transcription. Advanced dictation on letter forms, legal forms, speeches, and literary and technical material.

Year course (3-3)

ENGLISH IN BUSINESS

(See English, page 81)

SOCIAL SCIENCES

Lower division preparation for the liberal arts major in social science. Fulfillment of the departmental requirements for upper division work in at least three of the following sciences: Anthropology, economics, geography, history, political science, sociology.

Liberal arts major (upper division) in social science, required: Twenty-four units of upper division work including a concentration of twelve upper division units in one of the following fields and six units in each of two others: Anthropology, economics, geography, history, political science, sociology.

This major is available only to students who are preparing for graduate work in anthropology, political science, or sociology, and to those enrolled in certain preprofessional and other curricula. Official approval for candidacy for a degree with a social science major must be obtained from the dean of liberal arts.

LOWER DIVISION COURSES

1A Contemporary Political, Social and Economic Problems

Green

An analysis of major problems of the present day with reference to the conditions out of which they arise and with regard to their essential

unity and interrelationships. An attempt to introduce the student to methods of approach in dealing with these problems.

Fall and Spring (3)

3 American Trends Since 1918

Greer

Main currents of American life since the World War. Stress on immediate background of modern institutions. Aims to familiarize students with the major events which have occurred during the lifetime of the present college generation.

Fall and Spring (3)

40 Contemporary Problems

Greer, Lyons

Survey of the major political, social, and economic forces in modern American life. Chief problems are analyzed in relation to their setting, and students are given sound methods of approach in dealing with them. *Note the designation for this course has been changed from 5 to L40.*

Fall and Spring (3)

ANTHROPOLOGY

Lower division preparation for the liberal arts major in social science with concentration in anthropology: Anthropology 50A-50B, Sociology 50A, 50B, Geography 1, 2. Recommended: Geology 1A-1B, Economics A-1B. See requirements for the social science major, page 120.

LOWER DIVISION COURSES

50A-50B Man's Evolutionary History

Rogers

Origin and antiquity of man. Theories of human descent. Classification of races. Origin and early development of civilization.

Year course (3-3)

4 Social Anthropology

Rogers

An anthropological study of social institutions in primitive and civilized societies. The evolution of family organization, religion, property right, and government traced in elementary and advanced civilization. Ritualism and education considered as processes of culture conservation and social control.

Spring (3)

5 Culture History

Rogers

The prehistoric and historic development of culture types contributing to Western European and American civilization of today. Egyptian, Semitic, Indo-European, and Oriental cultures examined in light of their bearing on contemporary civilization. Methods of culture spread examined and applied to specific traits. Spengler's theory of history and similar doctrines reviewed.

Fall (3)

UPPER DIVISION COURSES

51A The American Indian: North American

Rogers

Pre-Columbian cultures of the North American Indian. The origin and migration of New World peoples. Industries, arts, crafts, social organization, religion and other phases of American Indian civilization.

Fall (3) (Offered in 1940-41 and alternate years)

151B The American Indian: Middle America

Rog

The development of civilization in Pre-Columbian Mexico and Central America: Aztec, Mayan, and related cultures.

Spring (3) (Offered in 1940-41 and alternate years)

152 Primitive Cultures (Ethnology)

Rog

History and cultural development of primitive races of mankind. Consideration given to industries, arts, social organization, and religion of living primitive peoples.

Fall (3) (Offered in 1941-42 and alternate years)

153 Primitive Religion

Rog

Beliefs and ritual of primitive man. Magic and religion. Forms of animism and polytheism. Primitive mentality and the supernatural.

Spring (3) (Offered in 1941-42 and alternate years)

ECONOMICS AND COMMERCE

The department provides an opportunity for the student to choose between a major in economics and a major in commerce in satisfying the requirements for the Bachelor of Arts degree.

Economics Lower division preparation for the liberal arts major in economics and for the junior certificate: Economics 1A-1B and at least one of the following: Political Science 1A-1B or 71A-71B; History 4A-4B, 8A-8B; Psychology 1A and 1B or 4A or 4B; Sociology 50A-50B; Anthropology 50A-50B. Recommended: Economics 14A-14B, 18A-18B.

Liberal arts major in economics, 24 upper division units required as follows: Economics 100, 102 or 111, 140 and 199, with 6 additional units selected from Economics 102 or 111, 107, 125, 131, 133, 135, 150, 170 and 194. Electives: Six additional upper division units in economics. Political Science 143A-143B may be substituted for elective units in economics.

Commerce Candidates for a teaching credential in business education should refer to the statement "Admission to Teacher Training Curriculum" on page 28 and to the curriculum for the A.B. degree with a special credential in Business Education on pages 38 to 39.

Lower division preparation for the liberal arts major in commerce and for the junior certificate: Economics 1A-1B, 14A-14B (6 units), 18A-18B; English 1B, 2 or 3; Geography 10A-10B, Mathematics D, or equivalent, and Economics 2; History 4A-4B or 8A-8B or Political Science 1A-1B or 71A-71B. Recommended for concentration in insurance: Political Science 71A-71B; Merchandising L26A.

Liberal arts major in commerce, 24 upper division units required. Economics 111, 121, 140, 199 required with 12 units additional chosen in one of the following groups:

A. Accounting: Economics 160A-160B, 161, 162.

B. Banking and Finance: Economics 133, 135 and 6 units selected from Economics 107, 131, 134, 137.

C. Insurance: Economics 125, 127, 133, 134. Recommended: Economics 131, 135.

Business Administration: 6 units selected from Economics 123, 137, 150. Electives: 6 additional upper division units in economics.

LOWER DIVISION COURSES

-1B Principles of Economics **Cameron, Jordan**
 The basic principles of economics: utility, wealth, value, price; economic production, distribution, and consumption; rent, interest, wages, and profit; competition, monopoly, and large scale production; property, economic waste, and luxury; money and banking, international trade and tariffs; transportation corporations, labor problems, socialism, taxation, etc. Aims of the course: (1) to provide a foundation for further intensive study of economic problems; (2) to furnish to those who expect to follow business pursuits a broad foundation in economic principles; and (3) to introduce future citizens to political and economic problems of our time. Lectures, discussions, quizzes, and collateral reading. Not open to entering freshmen except by special arrangement.
Prerequisite: 3-3

Mathematics of Finance **Wright**
 Interest and annuities; amortization; sinking funds; valuation of bonds; depreciation; mathematics of building and loan associations; mathematics of life insurance. Prerequisites: Two years of algebra in high school, or equivalents.
Prerequisite: 3-3

0A-L10B Business Economics **Watenpaugh**
 A basic course in the general principles of business economics and the application of these principles to current problems of man's economic life. A coordinated description of economic conditions, circumstances and forces which are of general significance throughout the business world. The development of theory as an interpretation of and guide to practice. Emphasis placed on actual business and financial operations and matters of everyday business experience which may serve as guides to individual conduct and the development of social policy. Human wants and their satisfaction; organization and purpose of business; risks and insurance; how prices are determined; money, credit and banking; taxation; principles of consumption; government and business; wealth, value, capital, rent, interest profits; etc. Not open to freshmen.
Prerequisite: 3-3

A-14B Accounting **Wright**
 Previous knowledge of bookkeeping not required and not advantageous. The balance sheet; profit and loss statement; various types of books of original entry; the opening, conducting, and closing of books for different kinds of businesses; organizations, reorganizations, dissolutions, and liquidations, etc., keeping in view the best modern accounting practice. One hour lecture and laboratory.
Prerequisite: 3-3

5A-L15B Elementary Accounting **Watenpaugh**
 An introductory course in the fundamental principles of accounting; recording business transactions; opening and closing books of different kinds of business in accordance with modern accounting practice; accounting theory combined with actual practice. Balance sheet; profit and

loss statements; accounts; book of entry, etc. Planned for students entering accounting work who must confine their preparation to one or two years.

Year course (3-3)

L16A-L16B Secretarial Accounting

Watenpaugh

A course in secretarial accounting covering the fundamental principles of accounting and the application of these principles to the accounting work required by one employed in a secretarial capacity.

Year course (3-3)

18A-18B Commercial Law

Wurster

The leading and fundamental principles of business law. Simple cases showing the actual application of the principles to commercial and business transactions, rather than the development of those principles. Topics covered: contracts, sales, agency, partnerships, corporations, real property, negotiable instruments, insurance, and wills, with a brief study of evidence.

Year course (3-3)

L65A-L65B Record Keeping

Watenpaugh

An advanced course in the application of accounting theory and principles to accounting practice; the technical arrangement of accounting forms, records and reports found in business; advanced theory. Opportunity afforded students through the use of practice sets, etc. to secure practice in applying principles to actual work done in business. Prerequisite: Accounting 15A and B or 16A and B or Economics 14A and B.

Year course (3-3)

UPPER DIVISION COURSES

100 Modern Economic Thought

Jordan

Review of schools of economic thought in the light of recent economic theory with special reference to value and distribution. Special attention is given to the marginal utility theory of value, to the contributions of the institutional economists, and to the work of statisticians in the development of economic theory. Prerequisite: Economics 1A-1B.

Fall (3)

102 Social Control and Economic Planning

A. G. Petersen

A study of principles, plans and movements for social and economic control including consideration of anarchism, individualism and liberalism, collectivism, socialism, communism, fascism, and the New Deal.

Spring (3) (offered in 1940-41 and alternate years)

107 Credit and Credit Institutions

Jordan

A study of the economics of credit, its cost, and the agencies supplying credit. Special attention is given to the growth of government credit agencies and their place in modern economic society. Prerequisite: Economics 1A-1B. Recommended: Economics 100.

Spring (3)

111 Economic History of the United States

Wright

A comprehensive survey of American economic development and of national legislation in the field of industry.

Fall (3)

Business Administration **A. G. Peterson**
 problems of business administration as an interrelated whole and as an
 indication of lines of study which may lead to the solution of those
 problems. A discussion of the problems of the business administrator
 with particular reference to the character of the problems involved and
 the control policies and devices of the manager. Questions, problems,
 and case studies. Prerequisite: Economics 1A-1B.
II (3)

Principles of Marketing **Jordan**
 survey of the fundamental principles and methods of marketing.
 Designed as a basic training for students interested in the economics of
 advertising, sales management, retailing, and foreign trade, as well as
 those wishing a knowledge of the existing market structure. Subjects
 covered include price policies, distribution methods, finance, risk, market
 information, and governmental regulation. Prerequisite: Economics
 1B.
II (3) (Offered in 1941-42 and alternate years)

General Insurance—Principles and Practice **Jordan**
 economic theory of risk, its extent and importance to both the individual
 and business; transfer of risk; distribution and prevention of loss; types
 of insurance carriers; problems of rate making; the insurance contract;
 coverages; special forms of life, fire, marine and casualty insurance; state
 supervision.
II (3) (Offered in 1941-42 and alternate years)

Life Insurance—Principles and Practice **Jordan**
 study of social and individual values involved in the institution of
 insurance. The student is then directed to the types of life insurance
 companies and associations, home office and agency organization, types of
 contracts, surrender value, policy loans and extended insurance, surplus
 and dividend policies, reserves, group, industrial and social insurance,
 and state supervision.
II (3) (Offered in 1940-41 and alternate years)

Real Estate **Cameron**
 real estate in all its aspects: property rights, transfer of title, valuation,
 lease, selling, property management, taxation, insurance, city planning,
 and the like, with special emphasis upon problems as they exist in San
 Diego.
III (3) (Not offered in 1940-41)

Real Estate Law and Practice **Barnes, Conklin, Merrill, Reader**
 California law and practice relating to the ownership and transfer of real
 property, including deeds, contracts, mortgages, taxes, escrows, title
 insurance, etc.
III (3) (Offered in 1940-41 and alternate years)

Public Finance and Taxation **A. G. Peterson**
 principles and practice of taxation, public expenditures, and financial
 administration. Economic effects of public expenditure, indebtedness, and
 inflation. Prerequisite: Economics 1A-1B.
III (3) (Offered in 1940-41 and alternate years)

133 Corporation Finance

Camer

The corporate form of organization, instruments of long-time financial methods of raising capital, efficient financial management, and the financing of reorganizations, and governmental control. Prerequisite: Economics 1A-1B.

Fall (3)

134 Investments

Camer

Investment principles and practices with emphasis upon problems of the small investor, such as tests of a good investment, sources of information, types of stocks and bonds, mechanics of purchase and sale, investment trusts, real estate mortgages, and the like.

Spring (3)

135 Money and Banking

Camer

The elements of monetary theory. History and principles of banking with special reference to the banking system of the United States. Prerequisite: Economics 1A-1B.

Spring (3)

137 Credits and Collections

Camer

The credit man and his work, including the instruments with which he works, sources of credit information, the technique of his department, collection methods, legislation for the protection of debtor and creditor, and credit insurance.

Fall (3) (Offered in 1940-41 and alternate years)

140 Statistical Methods

Jord

The nature and uses of statistical method in the social sciences. Practice in tabular and graphic presentation of data; analysis of frequency and time series; index number construction and study of correlation techniques. Prerequisite: Mathematics A and D, or equivalent.

Fall and Spring (3)

142 Business Fluctuations and Business Forecasting

Jord

Fundamental factors in business cycles are analyzed and cycle theories are examined. Study of current business conditions begins early in the course and develops into practical application of forecasting methods to both business and other data. Prerequisite: Economics 140.

Spring (3) (Offered in 1940-41 and alternate years)

150 Labor Problems and Industrial Relations

A. G. Peters

A discussion of employment, hours, wages, working conditions, insurance, pensions, workmen's compensation, labor organizations, and labor legislation. Organization of personnel functions; selective devices, training and safety programs, compensation plans, morale.

Fall (3) (Offered in 1941-42 and alternate years)

160A-160B Advanced Accounting

Wright

An intensive study of the corporation, its accounting and financial problems; a thorough study of the balance sheet; depreciation; factor accounting, etc. Under practical accounting an endeavor is made to design, construct, and operate sets of books to meet the needs of different

ditions and kinds of businesses. Six hours lecture and laboratory.
Prerequisite: Economics 14A-14B.

Course (3-3) (Offered in 1940-41 and alternate years)

Cost Accounting

Wright

Principles and methods of cost accounting in the mercantile establishment in the factory. A study of bookkeeping procedure, the forms used, and their application to practical problems. Prerequisite: Economics 14A-14B.

Course (3) (Offered in 1941-42 and alternate years)

Accounting Systems

Wright

Accounting systems used in various types of business and financial concerns. Some practice in devising and installing systems. Prerequisite: Economics 14A-14B.

Course (3) (Offered in 1941-42 and alternate years)

Income Tax Procedure

Wright

Consideration of the problems arising from the Federal income tax. The problems are approached from the point of view of the taxpayer who desires to determine the exact application of the law to the interests he represents as well as from the accounting point of view. No knowledge of accounting procedure is necessary.

Course (3) (Offered in 1941-42 and alternate years)

A-165B Auditing

Wright

Fundamental principles of accepted procedures of auditing and related types of accounting engagements.

Course (3-3) (Offered in 1940-41 and alternate years)

Governmental Accounting

Wright

Comparative study of accounting systems used by municipalities, counties, and the state of California; detailed comparisons with commercial practice; procedures in handling budget accounts, appropriations, and encumbrances; subsidiary records; cost records; internal checks; auditing.

Course (3) (Offered in 1941-42 and alternate years)

Transportation

Cameron

Development of railway transportation; railroad financing; rates and rate making; governmental regulation; government operation of railroads during the war; recent development of motor and air transportation; current problems in public utilities. Prerequisite: Economics 14B.

Course (3) (Offered in 1941-42 and alternate years)

International Economic Relations

A. G. Peterson

Brief treatment of certain geographical, sociological, and legal phases of international relations followed by a study of the commercial and industrial basis of world economy touching upon a number of special problems involved. An introductory study of materials covering the processes, principles, and policies of international trade. The course concerns itself primarily with the economic basis of international relations, but political aspects are almost constantly taken into account in recognition of the

fact that international relations are frequently political in form economic in content.

Spring (3) (Offered in 1941-42 and alternate years)

198 Investigation and Report

A. G. Peters

Designed to stimulate independent study and investigation; to furnish guidance in the collection, organization, and presentation of factual material; to improve the technique of term reports.

Fall and Spring (1-1)

199A-199B. Special Study

The St

Designed exclusively for seniors with a major in economics or commerce

Fall (1), Spring (2)

GEOGRAPHY

Lower division preparation for the liberal arts major in geography. Geography 1, 2, 3, and Geology 1A-1B. Recommended: A reading knowledge of French or German.

Liberal arts major (upper division): Twenty-four units of upper division work in geography or 18 units in geography and six units in related subjects arranged in consultation with the chairman of the department.

LOWER DIVISION COURSES

1 Introduction to Geography: Elements

L. C. Post, Richardson, St

The nature of maps; weather and climates of the world; land forms and their associated soils, with reference to their climatic relationships; seas and their coasts. Open to all students.

Fall and Spring (3)

2 Introduction to Geography: Natural and Cultural Regions

L. C. Post, Richardson, St

The regional differentiation of the world by human activity; areal basis of economy and nationality. Prerequisite: Geography 1.

Fall and Spring (3)

3 Elementary Meteorology

Bl

An elementary study of the earth's atmosphere and changes in it which produce our weather and influence human affairs. Special attention given to local conditions, instruments, and records. Aeronautical meteorology stressed in the fall semester.

Fall and Spring (3)

4 Map Reading and Map Interpretation

Richards

Representation of geographic data by means of maps. Interpretation of projections, scales, symbols, land forms, and culture from topographic maps; measurements of cultural data on maps. Prerequisite: Geography 1.

Fall (3)

10A-10B Economic Geography

L. C. Po

Beginning course in economic geography limited to students in commerce and prospective economics majors. Not open to students who have had Geography 1 and 2.

Fall and Spring (3-3)

50A-L40B Introduction to Geography

an introductory descriptive course designed to acquaint students with the general features of the various regions of the world. Presents the climatic regions of the world with a description of what man has done with the resources of each. Develops a background for the interpretation of world problems and world happenings. *Note the designation for this course has been changed from 5A-5B to L40A-L40B.*
Spring course (3-3)

UPPER DIVISION COURSES

2 Geography of California **Storm**
 the physiographic regions of California and the cultural landscapes developed by the successive cultural groups. Prerequisite: Geography 1.
Spring (3)

3 Climatology **Richardson**
 a survey of the principal classifications of climates of the world; regional characteristics of climate; relations to soils, vegetation, and human activities. Prerequisite: Geography 1.
Spring (3)

5 Geography of Latin America **Richardson**
 the natural regions of Latin America; their occupational condition and historical evolution. Prerequisite: Geography 1.
Spring (3)

7 Geography of Northern and Eastern Europe **L. C. Post**
 a study of the cultural development of the countries of northern and eastern Europe in relation to physical background and historical evolution. Prerequisite: Geography 1.
Fall (3)

8 Geography of the Mediterranean Area **L. C. Post**
 a study of the cultural development of the countries of Southern Europe, Western Asia, and North Africa in relation to physical background and resources. Prerequisite: Geography 1.
Spring (3)

1 Geography of North America **Richardson**
 the natural regions of North America, their formation and economic and historical development. Prerequisite: Geography 1.
Fall (3)

4 Geography of Asia **Storm**
 the cultural regions of Asia, their physical environment, and historical development. Prerequisite: Geography 1.
Spring (3)

5 Geography of the San Diego Area **Storm**
 directed individual urban and rural field work in the San Diego area; the mapping of a small area and making its geographic interpretations. Prerequisites: Geography 1 and 2.
Fall (3)

141 Economic Geography

Ston

A survey of the raw materials of world trade; their production and distribution as related to major geographic regions of the world. Prerequisite: Geography 1.

Fall (3)

166 Honors Course

L. C. Pe

To be arranged after consultation

Fall and Spring (Credit to be arranged)

HISTORY

Lower division preparation for the liberal arts major in history: History 4A-4B or 8A-8B, and either Political Science 1A-1B, 71A-71B or Economics 1A-1B. Both history courses are recommended for students planning to major in history. No student shall enroll in more than one lower division history course during a semester.

Upper division requirements for the liberal arts major: At least twenty-four units in upper division courses in history, to be arranged in consultation with the chairman of the department. The student must enroll in History 199 in his senior year. A reading knowledge of at least one foreign language is expected of history majors.

The history minor: from twelve to eighteen units of work in history recommended. At least half the work should be chosen from upper division courses.

LOWER DIVISION COURSES

4A-4B History of Modern Europe

Lesley

Development of European society and institutions from about 1500 A.D. Year course (3-3)

8A-8B History of the Americas

Nasati

A general survey of the history of the western hemisphere from the discovery to the present time. Emphasis on the process of planting European civilization in the new world, the international contest for the continents, the wars for independence, the development of the American republics, and their relations with each other and with the rest of the world. Based on H. E. Bolton's "Syllabus of the History of the Americas."

Year course (3-3)

UPPER DIVISION COURSES

111A-111B Ancient History

Lesley

Semester I—Social, economic, political and cultural development of the Greek states, with emphasis upon the growth of democracy, attempts at federal union and imperialism, Hellenism.

Semester II—Roman history to the beginning of the medieval period; discussions of Roman imperialism and the main constitutional, economic, social and religious developments in the republic and empire.

Year course (3-3) (Offered in 1941-42 and alternate years)

- 1A-121B Medieval History** **Osborn**
 general survey of European political and cultural development between 1000 and 1500 A.D., with special attention to intellectual tendencies and the development of institutions which culminated in the emergence of modern Europe after 1500.
year course (3-3) (Offered in 1940-41 and alternate years)
- 3 The French Revolution and Napoleonic Era** **Lesley**
 an intensive study of the revolutionary period in Europe from 1789 to 1815.
year course (3-3) (Offered in 1941-42 and alternate years)
- 4 Europe Since the World War** **Lesley**
 developments in Europe from 1919 to the present.
year course (3-3) (Offered in 1941-42 and alternate years)
- 6A-146B Diplomatic History of Europe Since 1648** **Lesley**
 a course centering around the four major European treaties, their background, drafting and results. First semester, the Treaties of Westphalia, Utrecht and Vienna. Second semester, the Treaty of Versailles.
year course (3-3) (Offered in 1940-41 and alternate years)
- 7 History of Modern France** **Lesley**
 an intensive survey of the political and social development of France under the Third Republic, 1870 to the present. International and colonial problems of modern France will also be considered.
year course (3-3) (Offered in 1940-41 and alternate years)
- 8 History of Modern Germany** **Lesley**
 political, social and economic development of Germany after 1870, the Empire and Republic. German post-war problems, imperialism, and the establishment of the Third Reich will receive special attention.
year course (3-3) (Offered in 1940-41 and alternate years)
- 1A-151B England Since the Norman Conquest** **Nasatir**
 a survey of political and constitutional development in England since 1066, stressing the transition from medieval to modern England, Tudor absolutism, the struggle for self-government under the Stuarts, the rise and development of present-day political and social institutions.
year course (3-3) (Offered in 1941-42 and alternate years)
- 6A-156B History of British Expansion** **Nasatir**
 a study of the growth, development, and break-up of the older overseas empire: the beginnings of the newer empire after 1783; the rise, federation, and imperial relations of the British Commonwealth of Nations; the home colony system; India under British rule; and British expansion in Africa and the Pacific; development of British mandates.
year course (3-3) (Offered in 1940-41 and alternate years)
- 11 South America Since Independence** **Nasatir**
 the republics of South America. Attention directed to the development of nationality in South America, the struggles for political stability, the exploitation of resources, diplomatic and commercial relations with the

United States, and other international problems of South America. Survey of present-day conditions, political, economic, and social.
Spring (3)

163 Mexico and the Caribbean Countries

Nasa

Same plan in general as outlined in History 161. Special attention to relations of the United States with these countries, and to the recent developments in Mexico.

Fall (3)

171A-171B The Rise of the American Nation

Leona

Semester I. English colonization in North America and the development of colonial institutions and politics. Semester II. The revolutionary movement and the Revolutionary War; the establishment of the government under the Constitution to the close of the War of 1812.

Year course (3-3) (Offered in 1940-41 and alternate years)

173A-173B The Expansion of the United States

Leona

The rise of Jacksonian Democracy; territorial expansion and the Mexican War; the slavery controversy; the Civil War, and reconstruction; the growth and progress of the United States to the World War.

Year course (3-3) (Offered in 1941-42 and alternate years)

199 Special Courses for Advanced Students

Leona

Required of all students with a history major in the liberal arts curriculum and to be attended during the senior year. Other students may be admitted with the permission of the instructor.

Spring (2)

POLITICAL SCIENCE

The minor in political science: from twelve to eighteen units of work recommended. At least half the work should be chosen from upper division courses.

It is suggested that students who expect to major in political science plan their lower division work to include both Political Science 1A-1B and 71A-71B, and either Economics 1A-1B or History 4A-4B.

LOWER DIVISION COURSES

1A-1B Comparative Government

Leonar

A comparative study of typical governments. Semester I: England, France, and Switzerland. Semester II: Italy, Germany, Russia, and Japan.

Year course (3-3)

L45 American Democracy

Gree

The structure and function of government, as it relates to individual Americans. Special emphasis on popular participation through voting, political parties, pressure groups, and public opinion. Prerequisite: Sophomore Standing. *Note the designation of this course has been changed from 50 to L45.*

Spring (3)

A-71B American Government and Politics **Osborn**

A—Governmental organization in the United States; the federal system, organization, powers and functions of the legislative, executive and judicial branches of the national government, and the expansion of its activities.

B—Development of the means of democratic control of government in the United States; the history, motivation, methods and control of political parties; party machines; election systems; influence of minority groups; the lobby; the press.

This course is not open to freshmen.

Var course (3-3)

UPPER DIVISION COURSES

1 American Institutions **Leonard**

A study of the principles of the Constitution of the United States, and a survey of the political and social institutions which have developed under it.

All candidates for the bachelor's degree are required by state law to secure credit in this course, unless they have completed one of the following courses: History 171A-171B, 173A-173B, Political Science 113, 175A-175B. This course is offered only in the fall semester.

Enrollment is limited to students of junior or senior standing, except with the consent of the instructor.

Var (2)

1 Theory of the State **Leonard**

The nature of the State, its organization and activities, and its relation to the individual and to other states. Special attention will be given to recent developments in the field of political thought.

Var (3) (Offered in 1940-41 and alternate years)

3 American Political Ideals **Leonard**

Underlying theories and principles of American governmental policy.

Var (3) (Offered in 1940-41 and alternate years)

5A-136B Problems of the Pacific Area **Osborn**

Particular emphasis during the first semester on the development through the 19th Century of the governmental problems of the Far East, both internal and international. The second semester will be devoted to a consideration of the 20th Century aspects of these problems.

Var course (3-3)

1 Theories of International Relations **Osborn**

The development of ideas concerning international relations from ancient through modern times. Theories of nationalism, imperialism, internationalism, and cosmopolitanism will be reviewed and their validity considered in the light of modern experience.

Var (3)

2 International Organization **Osborn**

Prewar attempts at international organization, the effect of the World War on ideas of international relationships, postwar attempts at organization.

zation. Special attention will be given to the organization and development of the League of Nations, its machinery, accomplishments and failures, and to national attitudes toward cooperation since the war.

Spring (3)

143A-143B Principles of Public Administration in the United States

Osbo

A study of the development of executive agencies in the American federal government and the relationship between these agencies and the change in American concepts concerning the proper field of governmental activity.

Year course (3-3) (Offered in 1941-42 and alternate years)

175A-175B—American Constitutional Development

Leon

A study of the work of the Convention of 1787, and of significant phases of American constitutional law.

Year course (3-3) (Offered in 1941-42 and alternate years)

SOCIOLOGY

Lower division preparation for the liberal arts major in social sciences with concentration in sociology: Sociology 50A, 50B; Economics 1A-1B and one of the following year courses: Anthropology 50A-50B, Political Science 1A-1B, 71A-71B. See requirements for the social science major on page 120.

LOWER DIVISION COURSES.

L40A Survey

Fay V. Perry

This course is planned to help orient the student to college life, to help him expand his interests and enrich his personality, to help him gain knowledge of himself and others that will aid him in recognizing and solving his problems in the areas of personal, social and family relationships.

Fall and Spring (3)

L40B

Fay V. Perry

The purpose of this course is to prepare young people for successful marriage and family life. Provision is made for a thorough study of both human and material resources that contribute to the welfare of family members. Special attention will be given to the units concerned with

personality development through family life,
the social significance of late adolescence,
choice of a life partner and courtship,
the establishment of a home and the social and economic factors involved.

Prerequisite: Sophomore standing. Enrollment by permission of instructor.

Spring (3)

50A Introduction to Sociology

Barnhart

A study of modern social problems recognizing the geographic, economic, psychological, and sociological factors involved. Emphasis is on a scientific method of approach. An evaluation of various causes and solutions of problems is made.

Fall (3)

B General Sociology

Kelly

study of the nature and organization of human group activity, including the relation of cultural heritage to public opinion and social change. Previous preparation in biology and psychology recommended.

fall and Spring (3)

Modern Marriage and the Family

Fay V. Perry

psychological and sociological interpretation of courtship, marriage, and family life. The course is explicitly directed toward helping young people solve their problems in the areas of personal, social, and family relationships. Prerequisite: Health Education 1 or 2, Biology 1 or A-10B, Psychology 1A. (These courses may be taken concurrently with Sociology 55.)

Spring (3)

UPPER DIVISION COURSES

50 General Sociology

Barnhart

course in general sociology for upper division students. The development and use of the concepts of sociological analysis, such as human nature, the effects of isolation and social contacts upon the development of personality; social interaction; social processes; social forces; social control; collective behavior; and social progress. Not open to students who have credit for Sociology 50B.

Spring (3)

55 Social Pathology

Barnhart

study of the alleged abnormal phenomena in society; family disorganization and personal demoralization; pathology of individual and group relationships and of economic, social, and cultural relationships.

fall (3)

66 Criminology and Penology

Barnhart

the extent and characteristics of crime; consideration of physical, mental, economic, and sociological causes of crime; study of methods of penal discipline, prison labor, parole, and probation; programs of prevention.

Spring (3)

88 The Family

Barnhart

history of marriage and family as a social institution. Effects of various economic and social factors on the modern family; higher education and the birth rate; married women in industry and professions; causes of desertion and divorce and their sociological effects. Not open to students who have credit for Sociology 55.

fall (3)

99 Fields of Social Work

Barnhart

survey of the nature of social work and the various kinds of social work which are found in modern urban life. The student is familiarized with the various social agencies in the community, their problems and methods of work, by readings and field trips. Volunteer social work in some social agency recommended.

Spring (3)

SPEECH ARTS

126 Social Reform Movements

Gre

A study of organized efforts to change social institutions in the United States since 1865. Emphasis given to backgrounds, objectives, techniques, and relationship to democracy of each movement.

Fall (3)

197 Urban Sociology

Barnha

A study of the structure and function of the modern city; types of neighborhoods; forms of recreation; social forces in a metropolitan area; types of urban personalities and groups; rural-urban conflicts of culture. Practical field studies required.

Fall (3)

199A-199B Special Study

Barnha

The student is introduced to the methods and techniques used in the scientific investigation of society, such as the historical, statistical, case study, personal history, survey, and other methods of social investigation. Actual practice in doing various types of field studies is required.

Designed exclusively for seniors with concentration in sociology in the social service major and for seniors pursuing the courses of study in the social work curriculum.

Fall (1), Spring (2)

SPEECH ARTS

Lower division preparation for the major in Speech Arts: Speech Arts 1A-1B, 55A-55B, and six units chosen from 1C-1D, 55C-55D, 60B, 63A-63B-63C-63D. Recommended: Aesthetics 1A-1B, 50; Art 52A, 94.

Liberal Arts major (upper division): Twelve units chosen from Speech Arts 150, 155A-155B, 156A-156B, 163A-163B; and six units from Speech Arts 157A-157B, 175, or 163A-163B; and six units from English 117A-117B, 152A-152B. Recommended: English 110, 116B; French 105A-105B, 11A-11B; Physical Education 164A-164B; Spanish 105A.

Candidates for the teaching credentials in Speech Arts should refer to "Admission to Teacher Training Curricula" on page 28 and to the curriculum for the A.B. degree with the Special Secondary Credential in Speech Arts on page 47 or to the curriculum leading to the Special Credential in Correction of Speech Defects on page 48.

LOWER DIVISION COURSES

1A Fundamentals of Public Speaking

Johnson, Pfaff

Training in fundamental processes of oral expression; methods of obtaining and organizing material; outlining principles of attention and delivery; extemporaneous speaking and open forum debating; practice in construction and delivery of type forms of speech.

Fall and Spring (3)

1B Extemporaneous Speaking (or Forum Speaking)

Pfaff

Practice in extemporaneous speaking on subjects of current interest both national and local, with stress laid on the organization and delivery of content material. Forum discussion will provide speakers with the opportunity of assembling facts quickly to meet such questions as any audience situation might demand.

Spring (3)

Oral Interpretation

Pfaff

Oral interpretation of longer literary selections, both in poetry and prose; a fundamentals course designed for the beginning students in drama as well as those majoring in English literature.

Autumn (3)

Advanced Interpretation

Pfaff

Emphasis placed on stage poise and grace with adequate attention given to variations in the presentation of literary selections. Much opportunity provided for individual and group creative work. No prerequisite. Class limited.

Autumn and Spring (3)

Corrective Speech

Pfaff

Corrective laboratory training prescribed on the basis of vocalization tests made on Electro-Vox Recording Machine. Required of education majors who fail to meet speech requirements test. Private clinical assistance given to stutterers and lisps.

Autumn and Spring (1) (9 weeks' course)

0 Fundamentals of Public Speaking

Peiffer

Training in fundamental processes of oral expression; practice in organization and presentation of material; emphasis upon speech in daily situations, including public discussion, conversation, recitation, extemporaneous speaking, and short speeches for special occasions. *Note the designation of this course has been changed from 5 to L40.*

Autumn and Spring (3)

A-55B Dramatic Production

Jones

Course for first and second year students in which, through participation, they acquire an understanding of certain dramatic periods and types studied in English literature. Individual and group expression coordinated and developed in production of scenes, acts, and plays—a fundamental drama course emphasizing modern trends. No prerequisite.

Autumn course (3-3) (Offered in 1941-42 and alternate years)

C-55D Dramatic Expression

Jones

Course designed to help first and second year students realize and develop their own abilities for expressing character and life. Coordination of thought, voice, and body, acquired through interpretation, impersonation, and acting of contemporary situations, creative and standard drama. History, technique, and use of dramatic expression studied. Formal participation by all. Best work given public performances. A fundamental course. No prerequisite.

Autumn Course (3-3) (Offered in 1940-41 and alternate years)

Argumentation and Debate

Peiffer

Obtaining and organizing of evidence and the construction and use of the brief; study and discussion of current issues; the presentation of formal and informal debates. Attention to intramural and intercollegiate debating.

Autumn and Spring (3)

A-61B-61C-61D Intercollegiate Debate

Peiffer

Autumn course, each year (1)

SPEECH ARTS

63A-B-C-D Verse Choir

Jones

Participation in verse speaking chorus to develop quality, range of tone, and ability in dramatic visualization of poetry. Required for speech and dramatic credential.

Fall and Spring (1-1)

UPPER DIVISION COURSES

110 Recreational Reading

Dickha

See English, page 81.

116B The Elizabethan Drama

Adams

See English, page 81.

117A Shakespeare

F. L. Johnson

See English, page 81.

117B Advanced Shakespeare

F. L. Johnson

See English, page 81.

150 Phonetics

Pfeiffer

Auditory and kinaesthetic analysis of the sounds of the English language. Valuable as a corrective course in pronunciation and articulation. Required of speech majors and those seeking Speech Correction Credential.

Fall (2)

152A Survey of Drama: Comedy

V. M. Evans

See English, page 81.

152B Survey of Drama: Tragedy

V. M. Evans

See English, page 81.

155A-155B Advanced Dramatic Expression

Jones

For upper division students training for leadership in different fields as well as drama. More advanced forms of dramatic expression studied to develop creative abilities in interpretation, writing, acting, and stagecraft developed in relation to various subjects and activities conducted through individual research projects, group discussion and participation. Original work encouraged. Prerequisite: A fundamental drama course.

Year course (3-3) (Offered in 1941-42 and alternate years)

156A-156B Advanced Dramatic Production

Jones

The study of more difficult dramatic types and periods in the production of poetic and prose literature of different countries. Arrangement, organization, creation, direction and presentation of class room, recreation and other forms of performances. Practical participation and demonstration. A course designed for students majoring in other subjects as well as the theater arts.

Year course (3-3) (Offered in 1940-41 and alternate years)

157A-B Radio Production

Jones, Swanson

Preparation and production of radio plays and various types of radio material.

Fall and Spring (3-3)

SPEECH ARTS

3A Rhythm, Pantomime and Choric Verse **Jones**
course combining bodily movement with group speaking. Presents
the fundamentals of rhythm and pantomime in different forms of dra-
matic expression.

ring (3) (Offered in 1941-42 and alternate years)

3B Advanced Rhythm, Pantomime and Choric Verse **Jones**
continuation of above.

ring (3) (Offered in 1940-41 and alternate years)

5 Major Speech Disorders **Pfaff**
initial survey of newest methods of speech correction with special
emphasis given to stammering and cleft-palate speech. One of required
courses for Special Corrective Credential.

ring (3)

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VOLUME 29
NUMBER 2
JUNE, 1941

SAN DIEGO STATE COLLEGE
SAN DIEGO, CALIFORNIA

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*A Section of the Academic Building
with the Library Tower
in the background*

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CALENDAR 1941-1942

SUMMER SESSION, 1941

Term I, six weeks, June 23-August 1

Term II, three weeks, August 4-August 23

FALL SEMESTER, 1941-1942

- September 1 Applications for admission must be filed on or before this date.
- September 8 Students who have not received notice that they have been granted admission by this date must delay registration until September 20.
- September 11, 12 Entrance examinations for all entering Freshmen who have not previously taken these examinations. No Freshman will be granted admission until these examinations have been taken.
- September 13 First day of the Orientation Program. All entering Freshmen must appear on the campus for this program, beginning at 8 a.m. and lasting until noon on this day.
- September 15 Second day of the Orientation Program. All entering students are required to attend the program on this day, beginning at 8 a.m. and lasting throughout the entire day.
10:00-11:00 a.m. College Aptitude Test for students entering with advanced standing.
1:00- 4:00 p.m. Fundamentals Tests — Required for admission to Upper Division Teacher Training. Should be taken at the end of the first semester of the Freshman year where possible.
- September 16 Registration and payment of fees.
- September 17 Instruction begins. Late registration fee becomes effective.
- November 11 Armistice Day Holiday.
- November 20, 21 Thanksgiving Recess.
- December 19 Last day before Christmas Recess begins.

CALENDAR 1941-1942—Continued

January 5	Classwork resumes.
January 28- February 4	Semester Examinations.

SPRING SEMESTER, 1941-1942

January 26	Applications for admission must be filed on or before this date.
February 2	Students who have not received notice that they have been granted admission by this date must delay registration until February 14.
February 7	First day of the Orientation Program. All entering Freshmen must appear on the campus for this program, beginning at 8 a.m. and lasting until noon on this day.
February 9	Second day of the Orientation Program. All entering students are required to attend the program on this day, beginning at 8 a.m. and lasting throughout the entire day. <div style="margin-left: 100px;"> 10:00-11:00 a.m. College Aptitude Test for students entering with advanced standing. 1:00- 4:00 p.m. Fundamentals Tests — Required for admission to Upper Division Teacher Training. Should be taken at the end of the first semester of the Freshman year where possible. </div>
February 10	Registration and payment of fees.
February 11	Instruction begins. Late registration fee becomes effective.
April 6-10	Spring Recess.
April 26	Founder's Day.
June 11-18	Semester Examinations.
June 19	Annual Commencement.

SUMMER SESSION, 1942

Term I, June 29-August 7
Term II, August 10-August 28

THE COLLEGE

Historical Sketch

The growth of the San Diego State College has involved three stages of development. It was known as the State Normal School of San Diego when it was established by legislative enactment in 1897 and when it opened its doors in 1898.

The second cycle of its growth began in 1921 when the legislature converted all California normal schools into State teachers colleges and when the San Diego Junior College was merged with the teachers college. Lower division courses were then available within a single institution for the various types of students in the community. From 1927 to 1934, the junior college relationship was discontinued, and the teachers college carried the lower division offerings. These offerings were enriched when the junior college arrangements were resumed in September, 1934.

The four-year curricula, leading to an A.B. degree with a major in education, were established in 1923. The State Board of Education, at that time and subsequently, authorized the following teaching credentials, which are to be granted in connection with the degree: general elementary, general junior high school, general junior high-general elementary; special secondary in art, business education, music, and physical education, and speech arts. Presecondary curricula were first authorized by the State Board of Education in 1928 and major subjects were approved from time to time until a total of sixteen was finally reached: art, chemistry, commerce, economics, education, English, geography, history, mathematics, music, physical science, physics, Romance languages, social science, speech arts and zoology.

In September, 1935, the college entered upon its third phase when it became, by legislative enactment, the San Diego State College. This change in status permitted the college to drop the requirement in education courses from the curricula previously known as presecondary and to convert them into liberal arts curricula leading to the A.B. degree with any one of the sixteen majors enumerated above.

Location and Environment

Renowned as a winter resort with a mild but invigorating climate, San Diego has become equally famous for its cool summers. High cultural standards in art, music, literature and science create a stimulating environment for a college. Many of these advantages are to be found in the heritage resulting from the expositions of 1915-16 and 1935-36, including the buildings themselves, which portray the best types of Spanish colonial art and architecture. Housed in these buildings are the Fine Arts Gallery, exhibits in anthropology, natural history, and American archaeology which are in many respects unsurpassed. The outdoor organ, the Ford Bowl, and the horticultural gardens make Balboa Park, in which all these facilities are located, world renowned. The

Scripps Institute of Oceanography, operated by the University of California at La Jolla, gives opportunity for important cooperation in the biological sciences.

Buildings and Equipment

On February 1, 1931, the college was moved to the new campus, located one mile north of the city's principal east-west boulevard, El Cajon Avenue. The buildings are of Spanish-Moorish architecture which is well suited to the landscape and climate of this region. They include the Academic Building (which houses lecture halls, classrooms and administrative offices); the Science Building; the Library, the Little Theater; the Campus Elementary School; Scripps Cottage (a social club house for women students); the Cafe and Book Store; and the Physical Education Building (a structure with adequate facilities for both men and women). The gymnasium contains a very fine basketball floor with stands that will accommodate 1500 spectators. A fine concrete stadium, constructed in a natural site, has a seating capacity that is adequate for present needs. Ultimately it will accommodate approximately 45,000 people.

Facilities for the Training of Teachers

The college maintains a modern elementary school on the campus where it has developed an extensive program for the education of elementary school teachers. The classroom-laboratory plan which calls for the use of work-rooms, the library, and shops, affords unusual opportunities for the induction of students into teaching.

By arrangement with the San Diego City Schools, practice teaching is provided in the Euclid elementary school for one-half day throughout a semester. A somewhat similar arrangement exists at the Woodrow Wilson Junior High School for students who are preparing to teach junior high and special secondary school subjects. Students preparing to teach only special secondary school subjects may be assigned to one of the senior high schools.

The Library

The library facilities of this college are noteworthy for an institution of its size. The library consists of well over 75,000 volumes selected to meet the requirements of a modern educational institution. Seven professionally trained librarians are available to render assistance to students in their reading and reference work.

The Campus Elementary School Library, representing a collection of 9000 volumes possesses equipment and building facilities that are unique.

Living Accommodations

The college does not maintain dormitories since nearly all of the students live with parents or guardians. Living arrangements for students whose homes are not in San Diego or within commuting distance are made through the offices of the Dean of Women or the Dean of Men. All women students are urged to live in the residence hall adjoining the campus. Careful consideration is given to study conditions, healthful

living and adequate social opportunities. Room and board may be secured for as little as \$160.00 per semester, payable in four installments. Opportunities to reduce this figure by working a few hours each week are occasionally available. Reservations should be made in advance through the Office of the Dean of Women. Where students find other accommodations more desirable, written permission from parents must be secured and filed with the Dean of Women.

Student Life

A rich field of extra-curricular activities is available to the student throughout his college life. The student is urged to select these activities carefully in order that he may profit by these extra-class experiences without lowering his standards of scholarship. The *Student Handbook*, available at the time of registration, gives information concerning activities which include organizations in every department of the college, and opportunities for individual and group experience in the social, athletic, fraternal, religious and governmental life of the campus.

Student Health Service

The Health Department is maintained for the protection and care of student health. A complete physical examination is required of each student upon admission to college. Careful attention is given to cases undergoing remedial treatment or to cases in which a modification of study load or in the amount of participation in physical activities seem advisable.

A representative of the Health Department is available throughout the entire day for consultation and emergency treatment. Students who have been absent because of illness should receive clearance from the Health Department before returning to classes.

Placement Service

A Placement Office is maintained by the college, which serves as a clearing house for part time and full time jobs. Employers notify this office of available openings in their organizations, and also turn to the office for information concerning graduates or nongraduates whom they are considering for employment.

Included in the services of the office are part time jobs of all types available, N. Y. A., teacher placements, and full time jobs in commerce and industry.

This service is free to students, who are invited to arrange for interviews with members of the placement staff if in need of assistance in finding work. Students who know of jobs in which they are not themselves interested are encouraged to notify the office of such vacancies.

The Placement Secretary, or one of the following persons, should be seen or called regarding vacancies or work applications:

Director of Teacher Placement.

Director of Commercial and Industrial Placement.

N. Y. A. Secretary.

Alumni Association

The college has an active Alumni Association. Since its reorganization in March, 1921, the association has steadily gained in membership. An important event is the annual Homecoming; other meetings take place on dates of important athletic contests. The association also sponsors the organization of Aztec clubs in various communities. Information concerning the association may be obtained by writing the secretary in care of the college.

FEES AND EXPENSES

Probable Expenses for One Semester

An estimate of the expense of attendance for one semester is given below. No estimate is made as to the cost of clothing, or other personal items, since these figures vary with the demands of the individual. Laboratory fees are additional.

A Partial Estimate of Expenses

One Semester		<i>Minimum</i>	<i>Maximum</i>
Fees and Deposits-----	\$ 20.00		\$ 27.50
Books -----	12.00		18.00
Board and Room-----	125.00		175.00
Incidentals:			
Transportation -----	10.00		20.00
Lunches (daily in cafe)-----	35.00		50.00
Organizations:		<i>Average</i>	
Fraternity			
Initiation and pin-----	\$16.50	} \$7.50	\$25.00
Dues and Assessments-----	5.50		
Sorority			
Initiation and pin-----	16.00	} 16.75	25.00
Dues and Assessments-----	8.00		
Miscellaneous -----			5.00

Before enrolling in college, the student should possess sufficient resources to meet the minimum expenses for one semester. A limited amount of clerical work in offices and in the library may be offered from time to time, but ordinarily it is not sufficiently remunerative to reduce expenses materially.

List of Fees and Deposits (Subject to Revision)

ENROLLMENT FEES AND DEPOSITS

PAYABLE AT TIME OF REGISTRATION

By all students:

Tuition:

² Resident students -----	\$6.50
Limited students (5 units or less)—per unit-----	2.50
Nonresident students—1st semester-----	75.00
2d and subsequent semesters-----	37.50

¹ Auditors pay same fees as students enrolled for credit.

² See page 18 for definition of residence for fee-paying purposes.

¹ Student activity fees	-----	\$6.00
Associated Students	-----	\$5.50
Associated men students or associated women students	-----	.50
General service deposit	-----	3.00
By new students only (in addition to the above)	-----	
Personnel examinations	-----	2.00

DEPARTMENTAL FEES

PAYABLE DURING SIXTH WEEK OF SEMESTER

General service fee (paid by all students)	-----	\$1.00
Health	-----	\$0.50
Library	-----	.50

In addition, fees ranging from 50¢ to \$7.50 per course are charged for certain courses, a complete list of these being issued at registration time. A penalty of \$1.00 is charged for failure to pay at the required time.

MISCELLANEOUS FEES AND DEPOSITS

DEPOSITS PAYABLE BEFORE LABORATORY WORK IS STARTED

Chemistry	-----	\$5.00
Geology 21A-21B	-----	1.00
Physics	-----	2.00

FEES PAYABLE WHEN SERVICE IS RENDERED

Change of program	-----	.50
College Bulletin (free to prospective students)	-----	.20
Duplicate library card	-----	.10
Duplicate registration book	-----	.10
² Evaluation of record for advanced standing	-----	2.00
Fundamentals test	-----	.50
Late filing of registration book	-----	1.00
Late registration	-----	1.00
Locker	-----	.25
Special examination	-----	.50
³ Transcript of record (1st copy free)	-----	.50

GRADUATION FEES

State Teaching Credentials (each credential)	-----	\$3.00
Elementary		
Elementary and Junior High		
Special secondary		
School administration		

The credential fee is collected through the college by post office money order made payable to the State Department of Education. This fee will be \$5.00 for students who have not resided in California one year previous to the date of their application.

¹ Paid by all students enrolled for more than 5 units.

² Paid by all students entering with advanced standing.

³ The 50-cent fee must accompany each application for a transcript of record. Ten cents will be charged for each duplicate of this record which accompanies the original.

ADMISSION AND REGISTRATION

General Admission Requirements

High school graduates and other applicants possessing equivalent preparation may be admitted to this college upon evidence of fitness to profit by college instruction, such fitness to be shown by previous scholastic records, evidence of good moral character and personal qualifications, and by satisfactory scores on tests which the college may require.

Admission of High School Graduates Candidates for admission may demonstrate their qualifications by satisfying two requirements: (1) All applicants must demonstrate readiness for college instruction by making satisfactory scores on such tests as the college may designate, and (2) they must present satisfactory evidence of previous scholarship.

Students will be granted *regular* status if they have earned recommended grades* in not less than 16 courses of one semester's duration in English, Social Science, Foreign Language, Mathematics, Natural Science, and related fields, during the tenth, eleventh, and twelfth years in high school. *Regular* students may enroll in either a degree curriculum or in one of the two-year curricula.

Students will be provisionally granted *regular* status if they have earned recommended grades* in not less than 12 courses of one semester's duration in English, Social Science, Foreign Language, Mathematics, Natural Science, and related fields, during the tenth, eleventh, and twelfth years in high school. If at the end of one semester they have maintained a scholarship average of C or better in not less than 12 units of work, they will retain their *regular* status. Failing to do this, they will be disqualified.

Students who do not qualify for *regular* status must enroll in one of the two-year curricula. They must have earned recommended grades* in at least 12 courses of one semester's duration, completed during the tenth, eleventh, and twelfth years in high school. Individuals who fail to meet this standard may be admitted to the two-year curricula if their achievement on the entrance examinations indicates probable success in these courses.

Admission by Examination Certificates of successful examination before the College Entrance Examination Board will be accepted when candidates cannot meet the above scholarship requirements.

Admission with Advanced Standing Credit earned in recognized institutions of collegiate grade will be evaluated and advanced standing allowed on the basis of the evidence submitted. Credit toward the fulfillment of graduation requirements will be allowed only in so far as the student has met the standards and requirements of this institution.

*Grades of A or B or the equivalent.

Applicants for advanced standing must show an average grade of *C* or better in all college work previously undertaken to qualify for admission to regular status. No applicant may disregard his collegiate record and apply for admission with freshman standing.

Not more than sixty-four semester hours of junior college work may be allowed for credit.

Students who seek to gain admission with advanced standing must furnish complete transcripts of record for all work attempted beyond the eighth grade. A two dollar evaluation deposit must accompany the application for admission. This deposit will be refunded if the student enrolls at the next regular registration period.

Admission of Special Students. Applicants over twenty-one years of age, who are not high school graduates and who do not possess the equivalent preparation but who receive a satisfactory score on a standard college aptitude test, may be granted provisional admission as special students. Such persons may be granted full matriculation only upon the removal of all deficiencies and upon the completion of one full semester of satisfactory college work in the chosen curriculum.

Registration

Registration for the fall semester of 1941-42 will take place on September 16, and for the spring semester on February 10. Candidates for admission may obtain an application blank from the Registrar which must be filed, with complete transcripts of record, two weeks before registration. *See calendar on page 7.*

The college year is divided into fall and spring semesters of eighteen weeks each, followed by a summer session consisting of terms of six and three weeks, respectively. Students may enter at the beginning of either semester or at the beginning of either of the summer terms.

The summer session meets the needs of regular students who wish to gain credit toward the bachelor's degree, of teachers in service, and of students who wish to secure supplemental credit or to shorten the time for completion of their college course.

Tests Required at Registration Time and Later

1. A physical examination is required of all students upon entering the college. Appointments for this examination are made during the orientation program.
2. All entering students are required to take the College Aptitude Test. Exceptions may be made for students who register for five units of work or less, for former graduates of this college, and for graduates of approved four-year colleges.
3. All entering students who are not transferring with advanced standing must take a High School Achievement Examination, a Reading Test, and a standard English Examination.
4. The Subject A Test (English Composition) is required of all entering students. English L1A or L1AA must be taken by all students whose tests indicate that they are not qualified for English 1B, even though they may not intend to enroll in English 1B. No student may enroll for his

third semester of attendance unless he has qualified for English 1B or is enrolled in English L1A or L1AA. Exceptions may be made for students transferring credit in English from other colleges.

5. Passing the Fundamentals Test in reading, spelling, arithmetic and handwriting, and a Speech Test are prerequisites for admission to upper division courses in teacher training curricula. Students should take these tests at the beginning of the second semester of their freshman year in order that they may have sufficient time to make up deficiencies, if any exist, before applying for admission to the upper division of teacher training curricula. Exceptions may be made for former graduates of this or other California State teacher training institutions who have been teachers in service.

Late Registration

A student who registers after the first week of the semester is subject to a limitation of his program. A fee of one dollar must be paid for registration after the regular registration day and the instructor's approval must be secured for each course entered after the first week of the semester.

Changes in Registration

Petitions for changes in program may be secured at the Registrar's office. A statement regarding withdrawals from class is to be found on page 20.

Auditors

Auditors register in the usual way and pay the same fees as those who are registered for credit.

Loans and Scholarships

Scholarships for both men and women have been made available through the efforts of alumni, and civic organizations. Superiority in scholarship and worthiness from the point of view of need are the standards upon which selection is based. Scholarship aid is therefore restricted for the most part to students who have completed the lower division of the college.

Both long and short term loans are available to students who have been in attendance for at least one year and who have given evidence of ability to do satisfactory college work. Application for loans is made to the Committee on Loans and Scholarships through the offices of the Dean of Men and Dean of Women.

GENERAL REGULATIONS

Officers for Consultation

Concerning the housing and living arrangements of students, personal problems, etc.—The Dean of Women; The Dean of Men.

Concerning the scheduling and arrangement for all student social affairs—The Dean of Women.

Concerning study lists and personal problems of *two-year* students—Director of Guidance for Two-Year Students.

Concerning admission, program of studies, credits, degree requirements, etc.—The Registrar; The Dean of Liberal Arts; The Dean of Education.

Concerning health and physical condition—The Health Department.

Concerning student-body affairs, student-body policy—The executive officers of the student body, The Dean of Liberal Arts.

Concerning appointments to teaching positions and other types of full and part-time employment—The Placement Secretary.

Concerning admission to Upper Division Teacher Training Curriculum, practice teaching, credential requirements, etc.—The Dean of Education.

Concerning use of the buildings—The Dean of Women; The Dean of Men.

Concerning entrance requirements and offerings at other institutions—The Registrar; The Dean of Liberal Arts; The Dean of Education.

Residence

The law designates the residence of the father to be that of the minor. Upon the death of the father, the mother's residence becomes that of the minor. In case of legal separation or divorce the minor's residence shall be determined by court action which designates who shall have custody of the minor.

Barring legal separation or divorce, the residence of the husband is the residence of the wife.

Classification

Full time students are those students who have complied with the requirements for admission and are registered in more than 5 units of work. Full-time students are expected to carry 12 units of work unless excused.

limited students are partial course students who, for adequate reasons, have been permitted to register for 5 units of work or fewer.

special students are mature students who have not satisfied all entrance requirements but who are registered for such courses as their ability and preparation qualify them to pursue. Special students may also be limited students.

regular students are those who are qualified to enroll in curricula leading to the Bachelor of Arts degree.

two-year students are those who are enrolled in one of the two-year completion curricula by choice or because they have failed to meet the scholarship standards required for *regular* status.

class. For convenience in administration, students who have completed to 29 units of work are classified as freshmen; 30 to 59 units as sophomores; 60 to 89 units as juniors; and more than 90 units as seniors.

Scholarship, Grades, and Grade Points

The following grades are used in reporting the standing of students at the end of each semester: *A*, excellent; *B*, good; *C*, fair; *D*, passed; *E*, conditioned; *F*, failed; *I*, incomplete, and *W*, withdrawn.

The grade *E* is used to record work which is of low order but which may be made passable. If by the close of the next semester the work has been satisfactorily completed the grade *E* is changed to a *D*; otherwise it is changed automatically to an *F*. The grade *I* is used to record work of higher order but which is incomplete for some acceptable reason. Ordinarily, to change an *I* to another grade, the work must be completed within a year.

Grade points are assigned as follows: Grade *A*, 3 points per unit; *B*, 2 points per unit; *C*, 1 point per unit; *D*, no points; *E*, minus 1 point per unit; *F*, minus 1 point per unit. The number of grade points a student has earned in a subject is determined by multiplying the number of points he has received by the number of units allowed.

The grade point average is determined by taking the algebraic sum of the grade points earned and dividing by the number of units attempted. Subjects in which the student receives an *I* or a *W* grade are disregarded in computing grade point averages.

A student must earn at least a *C* average in all work undertaken at the college to qualify for a certificate in any curriculum, a diploma of graduation, or a transcript of record with recommendation to another collegiate institution.

Units of Work and Study-Lists Limits

One unit of credit represents approximately three hours of actual work per week throughout one semester. It represents one hour of lecture or recitation combined with two hours of preparation, or in the case of laboratory credit, three hours of laboratory or field work.

Sixteen units in addition to physical education ($16\frac{1}{2}$ units) constitute normal semester's program for all students. Entering students are normally permitted to enroll for more than 16 units,* and all other students are limited to 18 units.*

Even though a student has carried a heavier program, he may not ordinarily apply more than 16 units* toward graduation. Certain exceptions to this rule exist where the student has successfully carried at least 1 units during the preceding semester: 1) 17 units* will be credited toward graduation if the student has maintained an average of not less than 1 grade points during that semester, and 2) 18 units* will be credited if a grade point average of at least 2.0 has been maintained. Any course in which a student received a passing grade may be used in the satisfaction of course requirements, even though the credit for such a course is in excess of the units credited for graduation.

Credit for a program that does not conform to the above regulations can be obtained only through a petition addressed to the Scholarship Committee. No student will be permitted to register for less than 12 units without the approval of the Dean of Liberal Arts or the Dean of Education.

Probation and Disqualification

Probation Any student whose scholarship record shows a cumulative deficit of 12 or more grade points for all work undertaken in the college will be placed on probation. A limited student will be placed on probation if his cumulative deficit equals or exceeds the average number of units carried per semester. Probationary status may be continued provided that the student does not add further toward his grade point deficiency.

Disqualification Any probational student whose scholarship falls below an average grade of *C* in any single semester is disqualified for further attendance at the college. A scholarship record below a *D* average for any single semester also disqualifies a student.

A disqualified student may be reinstated after an interval of one semester for reasons satisfactory to the Executive Committee. All applications for reinstatement must be in writing.

Withdrawals from Class

A student may obtain forms for withdrawal from class at the Registrar's Office. If a student withdraws from class for acceptable reasons during the first twelve weeks of a semester, a grade of *W* will be recorded upon his permanent record for those classes which he has dropped. If he withdraws during the last half of that twelve weeks period a grade representing the level of work maintained up to the time of withdrawal will be recorded upon a supplementary record. If he withdraws from class during the last six weeks of the semester either an *I* or an *F* will be recorded upon his permanent record.

* In addition to physical education activity courses.

Students who withdraw from all classes during the course of a semester must petition the Executive Committee at such time as they seek admission to the college.

Transcripts of Record

Students may secure one transcript of record without fee. Thereafter, requests for a transcript should be accompanied by a transcript fee of fifty cents. Once a student has matriculated in this institution, transcripts of record from other schools will not be returned or copies of them made.

Eligibility for Practice Teaching

A student shall be eligible for practice teaching (Education 116) who has not completed 75 units, been admitted to Teacher Training, and whose entire record, and also his record for the preceding semester, is not average at least a C grade.

The Honors Group

Students who at the end of the Sophomore year have attained a grade-point average of 2.5, and such others as have attained a high average in the department in which their Major is selected, and who have received the recommendation of that department and the consent of the Committee on Honors, may if they so elect, constitute an honors group, for special treatment in their Major subject.

Such students, so far as the facilities of the department and the best interests of the students under its charge allow, shall be treated as befits their individual needs and as their individual capacities warrant. They shall be eligible to enroll in honors or special study courses, although credit in such courses shall be limited to 5 units a semester. They shall not be held to regular attendance in the established courses of their departments if, in the opinion of the instructor, the course requirements can be met through special assignments and examinations or by satisfactory performance in the regular examinations in the course. With the consent of the major department, requirements concerning minors and specific courses or sequences in the major may be set aside. Each honor student shall be assigned to a member of his Major department for advice and direction.

Students in the honors group who fail to take advantage of the opportunities there offered may at the end of any semester be transferred by the department to the general course. Students in the general course who show unusual capacity, upon recommendation of the department and the Committee on Honors, may at the end of any semester, be transferred to the honors group if such transfer appears practicable.

Students who wish to apply for entrance in the Honors Group may do so by filling out cards to be obtained from their major departments. The applications should be filed with the chairman of the major department not later than a week after registration opens. Units earned by students doing individual study under this plan will be recorded under the symbol 166 and will be subject to the formulated rules dealing with limitations of student load.

The Degree with Honors

Honors at graduation shall be granted to those students only who have completed the major with distinction, and who have a general record satisfactory to the Committee on Honors.

Before Commencement each department shall determine, by such means as it may deem best (for example, by means of a comprehensive examination) which students it will recommend for honors at graduation, and report its recommendations to the Committee on Honors.

The Committee on Honors will consider departmental recommendations confer with the several departments about doubtful cases, and transmit to the faculty its recommendations concerning the award of Honors.

Examinations

No final examinations shall be given to individual students before the regular time. Any student who finds it impossible to take a final examination on the date scheduled must make arrangements with the instructor to have an incomplete grade reported and must take the deferred final examination not later than the end of the second semester following that in which the incomplete was given. No exceptions shall be made to this rule without the approval of a dean and the instructor concerned.

All final examinations shall be written in Official Examination Books or other forms which shall be furnished by the college and distributed by the instructor at the beginning of the examination period. No books or papers of any kind shall be brought into the examination room, except by special order of the instructor.

Students shall pay a special examination fee of fifty cents at the business office for every special examination given. The instructor shall give such examination only when the student presents a receipt showing that the fee has been paid.

Extension Courses

An extension program covering a wide range of offerings is made available each semester. Members of the regular college faculty and others expert in special fields instruct extension classes. The extension program is designed to serve the needs of San Diego and neighboring communities for courses on the college level that are not available on the campus, or that should be offered at times and places more convenient to special groups. Extension courses are considered the equivalent of campus courses and the amount of credit available to any one student in one semester through extension courses or a combination of campus and extension courses is subject to the same study-load limitations that apply to students regularly enrolled for campus courses. Fees for extension courses vary somewhat with the place where the instruction is offered, but will not exceed \$6.00 per unit for the year 1941-1942.

Information concerning extension offerings is included in the special bulletin of extension courses which may be obtained on application to the Director of Extension Service.

The amount of credit for extension and correspondence courses acceptable in fulfillment of the requirements for the Bachelor of Arts degree will depend upon the nature of the courses, the quality of the work done, and the students' preparation for work in the field of the course. The college reserves the right to limit credit to such courses as have been approved, and the total of such acceptable credit to twelve units.

THE BACHELOR OF ARTS DEGREE

General Requirements for the Bachelor of Arts Degree

San Diego State College offers the following types of curricula leading to the A.B. Degree: (1) the curricula leading to the California teaching credentials, and (2) the Liberal Arts curricula. With slight variations in definition, many of the basic requirements are the same.

A minimum of 124 units of college work, representing a four-year course, is required for the Bachelor of Arts degree. Not less than 54 of these units must be completed in the junior and senior years. At least 30 units must be earned in this college, and not less than 24 of these residence units must ordinarily be taken with the rank of senior. Not fewer than 12 units of this work must be completed during a single semester; or in lieu of this at least 16 units must be completed in not less than two consecutive summer sessions.

LOWER DIVISION

Subject Matter Requirements in the Lower Division

Physical Education	2 units
Health Education 1 or 2	2 units
English	6 units
Psychology	3 units
*Foreign Language	15 units
Mathematics A and B, 4 units, or high school algebra and geometry	
Social Sciences	14 units
Natural Sciences	14 units
*Year-course in foreign language or in mathematics, or in philosophy (This year-course is an additional requirement to those listed above)	6 units
Electives to make total of 60 units. ¹	

Explanation of Lower Division Requirements

English This requirement may be satisfied either in the freshman year or in the sophomore year. Courses are to be chosen from the following: English L1A or L1AA, 1B or 1C, 2A, 2B, 2C, 2D, 2E, 2F, 50A, 50B, 52A, 52B, 56A, 56B.

Psychology Psychology 1A.

* Not required in the teacher training curricula.

¹ Electives should include lower division preparation for the major. See pages 67-144. Requirements for the minors may be partially satisfied in the lower division. See page 26.

Foreign Languages At least 15 units in not more than two languages are required in the lower division, except that only 10 units in a modern language are required in the commerce major and no language is required in teacher training. Each year of acceptable high school work in a foreign language will be counted in satisfaction of 5 units of this requirement. Not less than two high school year-courses is acceptable in any language.

Social Sciences¹ Fourteen units chosen from two or more departments are required in this field. All students must present credit for Social Science 1A or for an acceptable equivalent.

Additional lower division courses to meet the social science requirement must be chosen from the following list and all except teacher training students must include one of the year courses marked with an asterisk: Anthropology 50A-50B*, 54, 55; Economics 1A-1B*, 18A-18B; Geography 2 or 10B; History 4A-4B*, 8A-8B*; Political Science 1A-1B*, 71A-71B*; Social Science 1B; Sociology 50A-50B*.

Two semesters of fourth year high school courses in the fields of history, political science, sociology, and economics taken with grades not lower than *C* may be used to satisfy three units of the social science requirement. A maximum of two units of the social science requirement may be chosen from upper division courses if high school senior courses have been used to satisfy the requirement, otherwise a maximum of five units may be counted.

Natural Sciences¹ Fourteen units chosen from courses representing each of the following groupings are required:

- (a) Biology 1 or a year course in high school or college biology, botany, physiology or zoology.
- (b) Physical Science 1A or 1B or a year course in high school or college chemistry or physics.
- (c) Additional lower division courses to meet the natural science requirement must come from the following list and must include one of the laboratory courses marked with an asterisk. *High School courses:* a maximum of two years (6 units) of third and fourth year courses in botany, chemistry,* physics,* physiology, zoology and advanced biology taken with grades not lower than *C* may be used to satisfy the natural science requirement. *College courses:* Astronomy 1, 9, 2; Biology 1, 10A-10B;* Botany 2A,* 2B,* 4; Chemistry 1A,* 1B,* 2A-2B,* 7-8;* Geography 1 or 3 (only one course may be counted toward requirement); Geology 1A, 1B*, 2A, 2B; Physical Science 1A, 1B; Physics 2A-2B, 3A-3B,* 1A-1B,* 1C-1D;* Zoology 1A,* 1B*.

Two units of this requirement may be chosen from upper division courses.

Mathematics High school elementary algebra (or Mathematics LA) and high school plane geometry (or Mathematics LB).

¹ Teacher training students should follow carefully the curricular outlines to meet specific course requirements in this field.

* Not required in the teacher training curricula.

ditional Year Course In addition to the foregoing minimum requirements in foreign language and mathematics, 6 units must be chosen from : of the following groups by all except teacher training students.

Modern foreign language: Any two consecutive college courses, or any two consecutive high school year courses.

Latin: Two years of high school courses in Latin.

Mathematics: D, or C, or equivalent, and either 1, 3A, or 8. Students with the Commerce major may take Mathematics D, or equivalent, and Economics 2.

Philosophy: 5A-5B.

Lower Division Preparation for the Minor See description of requirements for liberal arts minors on page 26 and for teaching minors on page 29.

Lower Division Preparation for the Major See description of requirements for teaching majors on page 29. Specific requirements for the majors in the liberal arts curricula are listed in connection with the descriptive list of courses in each major field (see pages 67-144).

Junior Certificate The junior certificate will be granted on the completion of 60 units and the satisfaction of all lower division requirements.

Specific Upper Division Requirements for the Liberal Arts Curricula

The liberal arts curricula lead to the bachelor of arts degree with major in art, chemistry, commerce, economics, English, geography, history, mathematics, music, physical science, physics, Romance languages, social science, speech arts, and zoology and qualify for graduate work in the fields in recognized American colleges and universities. Completion of the requirements of these curricula also enables the graduate to satisfy under-graduate requirements for the general secondary credential which with graduate work, will enable the holder to teach in a senior high school or junior college.

UPPER DIVISION

Subject Matter Requirements

Political Science 101_____	2 units
First minor (minimum in upper division courses)_____	6 units
Second minor (minimum in upper division courses)_____	6 units
Major (upper division courses)_____	24 units

At least 40 units in upper division courses must be completed, 30 of which must be earned after all lower division requirements have been satisfied.

Explanation of Requirements

Political Science 101 Political Science 113 or 175A-175B or History 171A-171B or 173A-173B will be accepted as substitutes for this requirement.

Minor Minors must be established in at least two of the following fields: anthropology, art, botany, chemistry, economics, education, English, foreign language, geography, geology, history, journalism, mathematics, music, philosophy, physics, political science, psychology, sociology, speech arts and zoology.

A minor consists of at least twelve units of work completed in one of the above fields of study. It is required that at least six of these units must be earned in upper division courses during junior or senior years. The entire requirement for a minor may be met with upper division courses provided these courses have no lower division prerequisites. Prerequisites for each course are listed among the course descriptions on pages 67 to 144.

Minor in Education A student who desires to satisfy the undergraduate requirements for the general secondary teaching credential will minor in education. He should include in his program a major in a subject or field of subjects usually taught in high school and a minor in the field of education. In order to conform to the usual university requirements this minor should include Education 102A-102B (or Education 130, and Psychology 102), and Education 115A-115B. Consultation with the Dean of Education or the Dean of Liberal Arts is recommended.

Majors The specific requirements for each major are listed at the beginning of each departmental division among the description of courses (See pages 67 to 144.) The student is advised to choose his major as early in his college course as practicable so that he may be able to plan

his work according to the major requirements. Failure to meet the lower division requirements of the major department before the junior year may make it impossible to satisfy the upper division requirements within the normal period of two years.

Limited Electives

A total of not more than 12 units of limited and vocational courses listed below will be counted toward the A.B. degree in Liberal Arts. Courses in education are included in this list principally because the major emphasis in the liberal arts program is non-professional and non-technical. Art L7, L14A, L65A, L65B; Economics L10A-L10B, L15A, L15B, L16A, L16B, L129, L163; Education, all courses except those listed as available for credit toward a minor (see Education minor above); Engineering L22, L23; English L1A, L1AA, L8; Journalism L53A, L53B, L153A, L153B; Library Science L10; Mathematics LA, LB, L5; Merchandising, all courses; Music L1A, L2A, L3A, L6A, L7A, L16A-B-C-D, L17A-B-C-D, L18A-B-C-D, L28A-L28B, L116A-B-C-D, L117A-B-C-D, L118A-B-C-D; Physical Education, all courses beyond the requirements specified in the curricular patterns except 30, 51, 170; Secretarial Training, all courses. All courses which are offered specifically to students taking two-year completion courses leading to the Associate of Arts diploma are classified as limited electives. See definition of *Two-year students*, page 62.

Professional and Preprofessional Courses. See pages 49 to 61.

Specific Upper Division Requirements for the Teacher Training Curricula

Admission to the Teacher Training Curricula Admission to the college does not imply that the student will be admitted to the teacher training curriculum. No student intending to enroll in the teacher training curriculum may enroll in an upper division course in education before being admitted to teacher training. Any exception to this rule must have the written approval of the Dean of Education. Students who have been in regular attendance at the college should make application for admission to the teacher training curricula during the first semester of their sophomore year. Students who have completed two or more semesters of work in another college, upon transferring to San Diego State College, should make application as soon as they can meet the preliminary requirements. It will be advantageous for transfer students to present themselves for the necessary tests given during the orientation period preceding the enrollment in the college. The preliminary requirements which must be met before making application are:

1. A satisfactory score in a college aptitude test taken at the college. (See college calendar for date of test.)
2. Evidence of satisfactory ability in arithmetic, handwriting, reading and spelling indicated by having passed the fundamentals test. (See college calendar for date of test.)
3. Assurance of correct speech habits and voice control by having satisfactorily completed a course in corrective speech or by having passed a speech test given by the college.
4. Assurance of physical fitness by having passed a prescribed examination given by one of the college physicians.
5. If the student is to be a candidate for one of the special secondary credentials, he must furnish a recommendation from the chairman of that department stating that the student has ability and shows promise of teaching success in his field and that the department looks with favor upon his application.
6. The completion of the first two years of a given curriculum, or its equivalent, with a grade point average of 1.2 or better.

After the student has submitted evidence of having met the preliminary requirements in his application for admission to the teacher training curricula he will be interviewed by the members of a committee appointed by the faculty for this purpose. In the appraisal of applicants the committee gives careful consideration to the following factors established by the State Board of Education: intelligence, scholarship, professional aptitude, personality and character, speech and language usage, and many-sided interests.

Advanced Standing in Teacher Training A maximum of 18 units in courses in education will be credited toward degree requirements in case such work was taken more than five years before entering upon the degree curriculum at this college (date of first work taken after an evaluation of record has been made, for students entering with advanced standing).

After an interval of five years, evaluations are subject to revision in the light of such new requirements as may have been put into effect and with respect to deduction in credit in education courses.

Students formerly in attendance will not be considered to be working in the degree curriculum until an evaluation and statement of credit has been secured from the registrar's office. All courses taken either at this college or elsewhere must be approved by an official adviser or the Assistant Registrar (for those taken elsewhere) in order to be credited toward meeting degree requirements.

Teaching Major Defined A teaching major consists of a minimum of twenty-four units in a field other than education, at least twelve of which must be in the upper division. A C average in scholarship is required in all upper division courses in the field of the teaching major. A major for a special secondary credential varies from twenty-four to forty units as specified in the requirements for the various curricula. Teaching majors may be established in the following fields: English, foreign languages, general science, mathematics and social sciences (anthropology, economics, geography, history, political science) and in the special secondary credential fields of art, business education, music, physical education, and speech arts.

Teaching Major in English Candidates for the teaching major in the field of English are expected to show credit in English 1B or 1C and nine elective units of lower division work and in twelve units of upper division work. This credit must include 3 units in American Literature (either lower or upper division) and 3 units in Shakespeare. Recommended: English 2D and 112.

Teaching Major in General Science Candidates for a teaching major in the field of general science are required to include in their programs a college year course in a biological science, a year course in high school or college physics and a concentration of twelve units, at least six of which are upper division, in one major subject (botany, chemistry, physics, zoology). *See definition of teaching majors.*

Teaching Major in Social Science Candidates for a teaching major in the field of the social sciences are required to include in their programs a year course in modern history and a concentration of twelve units, at least six of which are upper division, in one major subject (economics, geography, history, political science). *See definition of teaching majors.* The following courses may not be applied to the teaching major in the field of the social sciences: Economics 14A-14B, 18A-18B, 140, 160A-160B, 161, 162, 163, 164, 165; and all courses in merchandising.

Teaching Minor Defined A teaching minor consists of twelve units in a given field, at least six of which must be in upper division courses. Teaching minors may be established in the following fields: art, business education, English, foreign language, general science, mathematics, music, social sciences (anthropology, economics, geography, history, political science), physical education and speech arts.

Teaching Minor in English Candidates for the teaching minor in English must show credit in English 1B or 1C and three elective units of lower division work; and in six elective units in upper division English. This credit must include three units in American literature, taken either in lower division or upper division. Credit in journalism and speech arts may not be used to fulfill the requirements for the English minor. Recommended: English 2D.

Teaching Minor in Music Candidates for the teaching minor in music are required to take music aptitude tests at the time the minor is chosen and

to enroll in at least one music activity each semester. In special cases this requirement may be waived by petition to the Music Department.

Applicants for music minors must maintain a grade average of *C* in all music courses. To Music L1A and L7A, required for the elementary credential, the following twelve units are added for the music minor. In the lower division, with the proper regard for course sequences, six units may be chosen from the following courses: Music 1B-1C-1D; L2A; L3A; 4A-4B; L6A, 8A-8B; L16; L17; L18; Aesthetics 1A-1B. In the upper division, not less than six units may be chosen from the following courses: Music 130A-130B; 106A; L116; L117; L118; 121A; Aesthetics 102A-102B.

Teaching Minor in Physical Education Candidates for a teaching minor in physical education for women must show credit for Physical Education L1A, L1B, L1C, L9A, 51, L53, and one unit of sophomore activities and six units elected from Physical Education L157A, L157B, L161, L164A, L164B and 170 in the upper division.

Candidates for a teaching minor in physical education for men must show credit for Physical Education L1A, L1B, L1C, L1D, L53, and L62A in the lower division; and six units elected from Physical Education L156A, L156B, L161, L166, 170 or L190 in the upper division.

Major and Minor Credential Requirements

1. **The junior high school credential:** A teaching major and a teaching minor *in subjects taught in a junior high school are required*. The combination of a special secondary credential with the junior high school credential requires the completion of another teaching major than that required for a special secondary credential; the units required for this additional major may be included in the twelve additional units required for the second credential.
2. **The elementary school credential:** Two teaching minors are required.
3. **A special secondary credential:** The completion of the major in the special subject field (*see detailed outlines of curricular patterns for credentials*) and a teaching minor are required.
4. **Credit limitations:** A maximum of forty units of credit in one subject matter field may be applied toward the requirements for the A.B. degree.

Preparation for Graduate Work Students who take the A.B. degree with a special credential and who contemplate doing graduate work for a master's degree in an academic field at another institution of higher learning, will find it advantageous to use their electives to lay a foundation for that work. A student who plans to do graduate work in the field of his major is advised to so arrange his electives as to complete the equivalent of the liberal arts major to avoid the necessity of making up an undergraduate deficiency.

Political Science The course in Political Science 101 or its equivalent is required of all graduates of the college or those securing a teaching credential through the college. The following courses are accepted as equivalents: Political Science 113, 152 or 175A-175B; History 171A-171B or 173A-173B.

per Division Course Requirements At least 40 units in upper division courses must be completed, 30 of which must be earned after all lower division requirements have been satisfied.

Teacher Training Curricula and Teaching Credentials All Teacher Training Curricula leading to the Degree require a minimum of 18 semester units in education in addition to the general degree requirements previously listed.

The college offers curricula leading to the A.B. degree with authorization to recommend for the following teaching credentials:

1. **Elementary School Credential** authorizing the holder to teach any or all subjects in all grades of any elementary school in California.
2. **Junior High School Credential** authorizing the holder to teach any or all subjects in the seventh, eighth, and ninth grades of any elementary or secondary school in California. This credential will be issued only in combination with the elementary school credential, one of the special secondary credentials, or in combination with additional course requirements in the teaching major and in education as a preparation for graduate work for the general secondary credential. *Candidates for the latter type of combination should consult the Dean of Education regarding requirements.*
3. **Special Secondary Credential in Art** authorizing the holder to teach art subjects in any grade of the public schools of California.
4. **Special Secondary Credential in Business Education** authorizing the holder to teach commercial subjects in any grade of the public schools of California.
5. **Special Secondary Credential in Music** authorizing the holder to teach music in any grade of the public schools of California.
6. **Special Secondary Credential in Physical Education** authorizing the holder to teach physical education in any grade of the public schools of California.
7. **Special Secondary Credential in Speech Arts** authorizing the holder to teach public speaking, oral expression and dramatic art in the public schools of California.
8. **Administration and Supervision Credentials:** Candidates desiring to qualify for administration and supervision credentials will meet the credential requirements as outlined in State Department of Education Bulletin No. 12, *Regulations Governing Granting of Credentials and Certificates for Public School Service in California*. Further information will be furnished by the college upon request by the applicant.

Combination of Credentials In the case of students seeking more than one teaching credential, the curriculum for each credential must be completed in full, with only such exceptions as are indicated in the requirements. For each credential in addition to one, at least twelve additional units of credit must be earned, this work to be in electives in nonprofessional fields only, after the basic curriculum requirements have been satisfied.

A combination of the elementary school credential with the junior high school credential may be secured by completing the requirements for the elementary school credential and the following additional requirements: (a) a teaching major; (b) Education 100B; (c) a minimum of three units of practice teaching in a junior high school or the equivalent; (d) a course in Education 115B, *The Principles and Functions of Education*; (e) a total minimum of 136 units.

Limited Electives Credit for limited and vocational courses will be allowed in fulfillment of the requirements for the A.B. degree whenever they are required in any credential pattern completed by the student. A maximum of six units of credit in the following courses may be allowed to fulfill the requirements of any other credential pattern only after the student has received permission from the Dean of Education: Art I L14A; Economics L10A, L10B, L15A, L15B, L16A, L16B, L65A, L65B, L129, L163; Engineering L22, L23; English L1A, L1AA, L8; Journalism L53A, L53B, L153A, L153B; Library Science L10; Mathematics LA, LB, L5; Merchandising, all courses; Music L1A, L2A, L3A, L6A, L7A, L16A-B-C-D, L17A-B-C-D, L18A-B-C-D, L28A-L28B, L116A-B-C-D, L117A-B-C-D, L118A-B-C-D; Physical Education, all activities; Secretarial Training, all courses.

All courses which are offered specifically to students taking two-year completion courses leading to the Associate of Arts diploma are classified as limited electives.

Curricula Leading to Teaching Credentials

All candidates in teacher training curricula should observe carefully the requirements for admission to teacher training and be prepared to meet them at the end of the sophomore year. Students in other colleges who contemplate transferring to San Diego State College should arrange their programs so as to meet the requirements of their particular curriculum as early as possible. See college calendar for dates when the fundamentals test will be given and page 28 in this bulletin for requirements for admission to teacher training.

A.B. Degree With Elementary School Credential

First Semester—	FRESHMAN YEAR	Units
Art 6A, Structure	-----	2
Biology 10A, ¹ Science of Life	-----	3
English L1A, ² or L1AA, ² or 1B, ² or 1C, ² Freshman English	-----	3
Geography 1, Elements (Natural Science)	-----	3
Physical Education, Freshman Activities	-----	1½
Health Education 1 or 2	-----	2
Electives ^{3, 4}	-----	2

Second Semester—		
Biology 10B, ¹ Science of Life	-----	3
English 1B, 1C or 2D	-----	3
Geography 2, Regions (Social Science)	-----	3
Music L1A, Music Reading and Ear-training	-----	2
Physical Education, Freshman Activities	-----	1½
Electives ^{3, 4}	-----	5
		32

First Semester—	SOPHOMORE YEAR	
Art 6B, Structure	-----	2
English (selected from 1B, 1C, 2D, unless taken in freshman year, or from 52A, 52B, 56A, 56B)	-----	3
Physical Education, Sophomore Activities	-----	1½

Second Semester—		
Physical Education L53—Physical Education in the Elementary School	-----	2½

Either Semester—		
Art 61A, Elementary Crafts	-----	2
Art 61B, Elementary Crafts	-----	2
Music L7A, Music Materials for the Elementary Schools	-----	3
Psychology 1A, General	-----	3
Social Science 1A, Pol. Soc. and Econ. Problems	-----	3
Electives to meet requirements in Natural Science, Social Sciences, and minors ^{3, 4, 5}	-----	11-14
		32

¹ Possible substitutions for the requirement in Biology 10A-10B:

1. High school Biology (year course with laboratory work).
2. Botany 2A-2B and Zoology 1A-1B—16 units.
3. High school Botany and Zoology 1A-1B.
4. High school Zoology and Botany 2A-2B.
5. High school Botany and high school Zoology.
6. Biology 1 and Physical Science 1—6 units.

² Depending on result of Subject A test.

³ See Subject Matter Requirements in the Lower Division for total requirements in English, Natural Sciences, and Social Sciences.

⁴ Unless minor is English, General Science or Social Sciences.

⁵ If 6 units in minor taken in freshman year, none needed in sophomore year.

JUNIOR YEAR

First Semester—

	Units
Education 102A, The Psychological Foundations of Education-----	3
Education L147, Education Practicum—Lower Levels-----	12

Second Semester—

Education 102B, The Psychological Foundations of Education----	3
Education L148, Education Practicum—Upper Levels-----	12
	—
	30

SENIOR YEAR

Education L116, Practice Teaching ¹ -----	6
--	---

Either Semester—

Education 115 A, The Principles and Functions of Education-----	4
Electives including two minors and political science requirement (for the year)-----	20
	—
	30

SUMMARY

Art 6A, 6B, 61A, 61B-----	8
Education 102A-102B, 115A, L116, L147, L148-----	40
English -----	6
Health Education 1 or 2-----	2
Music L1A, L7A-----	5
*Natural Sciences (incl. Biology 10A-10B and Geog. 1)-----	14
Physical Education L1A-B-C, L53-----	4
Political Science 101-----	2
Psychology 1A -----	3
*Social Sciences (including Social Science 1A and Geography 2)---	14
Electives, including two teaching minors-----	26
	—
	124

¹ Candidates for the Elementary School Credential in combination with any other type of credential are required to do not less than 6 units of practice teaching in the elementary school.

* See page 24.

B. degree with Junior High School credential Note: The Junior High School credential will be issued only in combination with one of the other teaching credentials, or with the additional courses in Education and the major subject field required as preparation for graduate work and the general secondary credential. The latter combination requires the completion of a full academic major as specified by the department instead of the teaching major which may be used only when this credential is used in combination with another.

First Semester—	Units
Biology 10A, ¹ Science of Life-----	3
English L1A or L1AA, ² or 1B, ² or 1C ² -----	3
Geography 1, Elements (Natural Science)-----	3
Physical Education, Freshman Activities-----	$\frac{1}{2}$
Health Education 1 or 2-----	2
Lectives, ³ includes major and minor ⁴ -----	4
Second Semester—	
Biology 10B, ¹ Science of Life-----	3
English 1B, 1C, 1B, 1C or 2D-----	3
Geography 2, Regions (Social Science)-----	3
Physical Education, Freshman Activities-----	$\frac{1}{2}$
Lectives, ³ including major and minor ⁴ -----	7
	<hr/>
	32

First Semester—	SOPHOMORE YEAR
English (selected from 1B, 1C, 2D, unless taken in freshman year or from 52A, 52B, 56A, 56B)-----	3
Physical Education, Sophomore Activities-----	$\frac{1}{2}$
Psychology 1A, General-----	3
Second Semester—	
Physical Education, Sophomore Activities-----	$\frac{1}{2}$
Either Semester—	
Social Science 1A, Pol., Soc. and Econ. Problems-----	3
Lectives, ³ including major and minor ⁵ (for the year)-----	22-25
	<hr/>
	32

First Semester—	JUNIOR YEAR
Education L100A, ⁶ Methods and Materials of Instruction-----	3
Education 102A, The Psychological Foundations of Education-----	3
Political Science 101, American Institutions (or substitute)-----	2

Possible substitutions for the requirement in Biology 10A-10B:

1. High school Biology (year course with laboratory work).
 2. Botany 2A-2B and Zoology 1A-1B—16 units.
 3. High school Botany and Zoology 1A-1B.
 4. High school Zoology and Botany 2A-2B.
 5. High school Botany and high school Zoology.
 6. Biology 1 and Physical Science 1—6 units.
- Depending on result of Subject A test.
See Subject Matter Requirements in the Lower Division for total requirements in English, Natural Sciences, and Social Sciences.
Unless minor is English, General Science or Social Science.
If 6 units in minor taken in freshman year, none needed in sophomore year.
Not required if student is meeting requirements for elementary credential also.

Second Semester—

Education L100B, Methods and Materials of Instruction-----	3	Unit
Education 102B, The Psychological Foundations of Education----	3	
Education L116, Practice Teaching-----	3	

Either Semester—

Health Education 151-----	2	
Electives, including major and minor (for the year)-----	11	
	30	

SENIOR YEAR**First Semester—**

Education 115A, The Principles and Functions of Education-----	4	
Education L116, Practice Teaching-----	3	

Second Semester—

Education 115B, The Principles and Functions of Education-----	4	
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Either Semester—

Electives, including major and minor ¹ (for the year)-----	19	
	30	

SUMMARY

Education L100A-L100B, 102A-102B, 115A-115B, L116-----	26	
English -----	6	
Health Education 1 or 2; 151-----	4	
* Natural Sciences (including Biology 10A-10B and Geog. 1)----	14	
Physical Education -----	2	
Political Science 101-----	2	
Psychology 1A -----	3	
* Social Sciences (including Social Science 1 and Geography 2)----	14	
Electives, including teaching major and minor-----	53	
	124	

¹ If 6 units in minor taken in junior year, none needed in senior year.

* See page 24.

B. Degree With Special Credential in Art This course leads to the B. degree and to the Special Secondary Credential in Art which entitles the holder to teach art in senior high, junior high, and elementary schools.

LOWER DIVISION		Units
esthetics 50, History and Appreciation of Art	-----	2
rt 6A-6B, Structure	-----	4
rt 61A, 61B, Fine and Industrial Arts, Elementary Crafts	-----	4
English	-----	6
Health Education 1 or 2	-----	2
Natural Sciences	-----	8-14
Physical Education, Freshman and Sophomore Activities	-----	2
Psychology 1A, General	-----	3
Social Sciences (including Social Science 1A)	-----	9-14
lectives, including additional art for major and courses for teaching minor ¹	-----	13-24
		<hr/> 64

UPPER DIVISION		
esthetics 150	-----	2
rt 106A-106B	-----	4
rt 112A-112B	-----	6
rt 152A (unless 52A was taken in lower division)	-----	0-2
rt 195	-----	2
rt 116A	-----	3
lectives in U. D. Art	-----	3-5
ducation L100A ² -L100B, Methods and Materials of Instruction	-----	6
ducation 102A-102B, The Psychological Foundations of Education	-----	6
ducation 115B, The Principles and Functions of Education	-----	4
ducation L116, Practice Teaching (4 units in special field)	-----	6
ducation L119, Art in the Elementary School	-----	2
olitical Science 101, American Institutions (or substitute)	-----	2
lectives, including additional art and teaching minor	-----	12-14
		<hr/> 60

SUMMARY		
esthetics 50 and 150	-----	4
rt major	-----	40 ³
ducation	-----	24
English	-----	6
Health Education 1 or 2	-----	2
Natural Sciences	-----	14
Physical Education	-----	2
Political Science 101, American Institutions	-----	2
Psychology 1A	-----	3
Social Sciences (including Social Science 1A)	-----	14
lectives, including teaching minor	-----	13
		<hr/> 124

Unless minor is English, General Science, or Social Science.
 Not required if student is meeting requirements for elementary credential also.

Maximum credit allowable in art.

See Subject Matter Requirements in the Lower Division.

See page 24.

A.B. Degree With Special Credential in Business Education This course leads to the A.B. degree and to the Special Secondary Credential in Business Education, which entitles the holder to teach business subjects in senior high and junior high schools.

In addition to the following academic requirements, satisfactory evidence of one-half year, or 1000 hours of approved experience in the field named in the credential must be submitted. For the credentials in the General Business Subfield twelve semester hours of work above the requirements for a bachelor's degree may be offered in lieu of the six months of full time experience. At least six semester hours of the twelve must be in business or economics.

Accounting and Secretarial Subfields

LOWER DIVISION		Unit
Economics 1A-1B, Principles-----		6
Economics 14A-14B, Accounting-----		6
English L8, English in Business-----		3
Geography 10A-10B, Economic Geography-----		6
¹ Natural Science -----		8
Physical Education, Freshmen and Sophomore Activities-----		2
Health Education -----		2
Speech Arts 1A, Fundamentals of Public Speaking-----		3
Social Science 1A, Pol., Soc. and Econ. Problems-----		3
Psychology 1A, General-----		3
Secretarial Training LA, Business Mathematics-----		1
Secretarial Training L1A-L1B, Typewriting -----		6
Secretarial Training L5A-L5B, Stenography -----		10
Secretarial Training L3A, Office Methods and Appliances-----		3
Electives -----		2
		64
UPPER DIVISION		
Economics 18A-18B, Commercial Law-----		6
Economics 100, or 102 or 111 or 123-----		3
Economics 121, Business Administration-----		3
Upper Division Accounting-----		6
Education L100A-L100B, Methods and Materials of Ed.-----		6
Education 102A-102B, The Psych. Foundations of Ed.-----		6
Education 115B, The Principles and Functions of Ed.-----		4
Education L116, Practice Teaching-----		6
Special Methods Courses as prescribed by major department-----		4
Political Science 101, American Institutions (or substitute)-----		2
Minor -----		6
Electives -----		8
		60

¹ See page 24. Students deficient in high school natural science will have to make up such deficiency in college. See subject matter requirements in the Lower Division.

By electing Merchandising L25, Salesmanship; Merchandising L27, Advertising; Merchandising L26, Applied Salesmanship; Economics 123, Marketing; the Merchandising Subfield may be added to the above authorization.

General Business Subfield

LOWER DIVISION		Units
Economics 1A-1B, Principles-----		6
Economics 2, Mathematics of Finance-----		3
Economics 14A-14B, Accounting-----		6
Economics 18A-18B, Commercial Law-----		6
Geography 10A-10B-----		6
Merchandising L26, Salesmanship-----		2
Merchandising L27, Advertising-----		3
Natural Sciences -----		8
Physical Education, Freshman and Sophomore Activities-----		2
Psychology 1A, General-----		3
Secretarial Training LA, Business Mathematics-----		1
Secretarial Training L1A-L1B, Typewriting-----		6
English L8, English in Business-----		3
Social Science 1A, Pol., Soc., and Econ. Problems-----		3
Speech Arts 1A, Fundamentals of Public Speaking-----		3
Electives, including Freshman English-----		3
		64

UPPER DIVISION

Economics 100, Modern Economic Thought, or a course in Consumer Economics or Economics 102, Social Control and Economic Planning -----	3
Economics 121, Business Administration-----	3
Economics 135, Money and Banking-----	3
Economics 162 -----	3
Education 100A-100B, Methods and Materials of Instruction-----	6
Education 102A-102B, The Psychological Foundations of Education-----	6
Education 115B, The Principles and Functions of Education-----	4
Education 116, Practice Teaching-----	6
Special Methods Courses as prescribed by major department-----	4
Economics 194 -----	3
Health Ed. 1 or 2-----	2
Political Science 101, American Institutions (or substitute)-----	2
Electives (including a minimum of 5 units in the upper division, 3 units of which must be in commerce)-----	15
	60

¹ See page 24. Students deficient in high school natural science will have to make up such deficiency in college. See subject matter requirements in the Lower Division.

A.B. Degree With Special Credentials in Music Students intending to become applicants for this credential must show evidence of musical ability, before entering the course. They must be able to play artistically upon the piano, music of the grade of the simpler *Songs Without Words* of Mendelssohn or else possess a corresponding degree of proficiency in voice or on an orchestral instrument. No credit is given to music majors for the basic courses of Music L1A and Music L7A, but if a deficiency exists in the field of general musicianship, the student will be required to take either or both of these courses without credit.

All music majors are required to enroll in two musical activities each semester. In special cases this requirement may be waived by petition to the Music Department.

All students are required to pass examinations in applied music. No credit is allowed to majors in voice or orchestral instruments for any work in piano which is below the level of artistic hymn playing.

Applicants for the Special Secondary Credential in Music must maintain a grade average of *C* or better in music courses.

All students majoring in music are required to pass a comprehensive examination in this field during the senior year.

This course leads to the A.B. degree with a Special Secondary Credential in Music which will authorize the holder to teach music in the elementary, junior and senior high schools of the State.

A maximum of 40 units in Music may be used toward the A.B. degree. Of these 40 units a maximum of 3 may come from the field of musical activities: band, choir, chorus, glee clubs and orchestra.

FRESHMAN YEAR

First Semester—	Units
English L1A, ¹ 1B, ¹ or 1C ¹ -----	3
Health Education 1 or 2-----	2
History 4A or 8A-----	3
Aesthetics 1A-----	2
Music 1B-----	2
Social Science 1A-----	3
Music L18-----	1
Physical Education-----	$\frac{1}{2}$
	<hr/> 16 $\frac{1}{2}$
Second Semester—	
² English-----	3
Geography 1, Elements (Natural Science)-----	3
History 4B or 8B-----	3
Aesthetics 1B-----	2
Music 1C-----	2
Music L3A-----	1
Music L18-----	1
Physical Education-----	$\frac{1}{2}$
	<hr/> 15 $\frac{1}{2}$

¹ Depending on result of Subject A test.

² See Lower Division requirements on page 23.

SOPHOMORE YEAR

First Semester—	Units
Music 4A -----	3
Music 1D -----	2
Music L18 -----	1
*Natural Science -----	6
Geography 2, Regions -----	3
Music L2A -----	1
Physical Education -----	$\frac{1}{2}$
	<hr/> 16 $\frac{1}{2}$
Second Semester—	
Music 4B -----	3
Music L6A -----	1
Music L17 -----	1
Psychology 1A -----	3
*Natural Science -----	5
Music L18 -----	1
Physical Education -----	$\frac{1}{2}$
	<hr/> 14 $\frac{1}{2}$

First Semester—	JUNIOR YEAR
Music 105A -----	3
Education L117 -----	2
Education L145 -----	2
Education 102A -----	3
Education L100A -----	3
Upper Division Minor -----	3
	<hr/> 16
Second Semester—	
Political Science 101 -----	2
Music 105B -----	3
Music L117 -----	1
Education L100B -----	3
Education 102B -----	3
Upper Division Minor -----	3
	<hr/> 15

First Semester—	SENIOR YEAR
Music 119 -----	1
Music 107A -----	2
Music L117 -----	1
Aesthetics 102A -----	2
Education L116, Practice Teaching -----	6
**Music Activities -----	2
	<hr/> 14

* See Subject Matter Requirement in the Lower Division.
 NOTE.—A maximum of 3 units is credited toward the special Secondary credential in Music for music activities carried on throughout the four year course. These activities: band, choir, glee clubs, chorus and orchestra are an integral part of the work of the course and each music major is expected to participate in at least two of these each semester unless excused by the Music Department.

Second Semester—

Unit

Music 121	2
Music 106	2
Music 120	1
Music L117	1
Aesthetics 102B	2
Education 115B	4
Education L116, Practice Teaching	3
*Music Activities	1

16

SUMMARY

Health Education	2
Aesthetics	8
Education	29
English	6
Upper Division Minor	6
Natural Science	14
Music	40
Social Science	14
Psychology	3
Physical Education	2

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* NOTE.—A maximum of 3 units is credited toward the special Secondary credential in Music for music activities carried on throughout the four-year course. These activities, band, choir, glee clubs, chorus and orchestra are an integral part of the work of the course and each music major is expected to participate in at least two of these each semester unless excused by the Music Department.

A.B. Degree With Special Credential in Physical Education This course leads to the A.B. degree and to the Special Secondary Credential in Physical Education which entitles the holder to teach physical education in senior high, junior high, and elementary schools.

MEN

LOWER DIVISION

Units

Biology 10A-10B, Science of Life (unless taken as a year course in high school with at least a grade of B)	
or	
Zoology 1A, General	4-6
†English	6
Health Education 1	2
‡Natural Sciences	5 or 7
Physical Education:	
L1A-1B, L1C-1D	2
L6A, Tennis	$\frac{1}{2}$
30, Emergencies	1
L53, Physical Education in the Elementary School	2 $\frac{1}{2}$
L62A, L62B, Gymnastic Activities	4
L66, Playing Rules of Modern Games	1
L72, Principles	2
Sports and Athletics ¹	2
Psychology 1A, General	3
Red Cross Swimming Test	$\frac{1}{2}$
†Social Sciences, including Social Science 1A, Political, Social and Economic Problems	14
Speech Arts 1A, Fundamentals of Public Speaking	3
Zoology 20, Anatomy and Physiology (or Zoology 108)	3
Electives, including courses to meet minor requirements ²	6 $\frac{1}{2}$
	64

UPPER DIVISION

Education L100A-L100B, Methods and Materials of Instruction	6
Education 102A-102B, The Psychological Foundations of Education	6
Education 115B, The Principles and Functions of Education	4
Education L116, Practice Teaching	6
Health Education 151	2
Physical Education: Choose four out of the seven starred courses:	
L154, Organ. and Admin. of Physical Education	3
*L155, Applied Anatomy	2
L156A-156B, Sports Methods	4
*161, Folk Dancing	2
*L166, Technique of Officiating	2
*L168, Physiology of Exercise	2
L169, Technique of Teaching Activities	2
*170, Recreational Leadership	2
*L180, Theory of Coaching Football	2
*L190, Individual Program Adaptation	3
Sports and Athletics ¹	2

Men majoring in Physical Education must actively participate in at least three sports each year.

¹ Unless minor is English, General Science, or Social Science.

† See Subject Matter Requirements in the Lower Division.

MEN—Continued

UPPER DIVISION—Continued

Physical Education—Continued	Units
Zoology 114A, Genetics-----	2
Political Science 101, American Institutions (or substitute)-----	2
Electives -----	14
	60

SUMMARY

Education -----	22
English -----	6
Health Education -----	4
Speech Arts 1A-----	3
*Natural Science (including Biology 10A-10B or substitute and Zoology 20) -----	14
Physical Education major-----	33
Political Science 101, American Institutions-----	2
Psychology -----	3
**Social Sciences (including Social Science 1A)-----	14
Zoology 114A -----	2
Electives, including teaching minor-----	21
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* See page 24.

** See page 24.

WOMEN

LOWER DIVISION

Units

Aesthetics 1A, Survey of Music.....	2
Biology 10A-10B, Science of Life (unless taken as a year course in high school with at least a grade of B).....	6
*English	6
Health Education 2.....	2
*Natural Sciences	5-7

Physical Education :

L1A, Fundamental Skills	$\frac{1}{2}$
L1B, Folk Dancing	$\frac{1}{2}$
L1C, Rhythmic Skills	$\frac{1}{2}$
L4A, Social Dancing	$\frac{1}{2}$
L5B, Archery	$\frac{1}{2}$
L6A, Badminton	$\frac{1}{2}$
L9A, Stunts and Tumbling	$\frac{1}{2}$
L10C, Life Saving.....	$\frac{1}{2}$
L11B, Tennis	$\frac{1}{2}$
51, Safety Education.....	1
L53, Physical Education in the Elementary School.....	2 $\frac{1}{2}$
Sports and Dancing ²	$\frac{1}{2}$
Psychology 1A, General.....	3
*Social Sciences, including Soc. Science 1A.....	12
Speech Arts	3
Zoology 20	3
Electives, including teaching minor ¹	13 $\frac{1}{2}$

64

UPPER DIVISION

Education L100A-L100B, Methods and Materials of Instruction.....	6
Education 102A-102B, The Psychological Foundations of Education.....	6
Education 115B, The Principles and Functions of Education.....	4
Education L116, Practice Teaching.....	6
Health Education 151.....	2

Physical Education :

L153, Administration of Secondary Physical Education.....	2
L155, Applied Anatomy	2
L157A-L157B, Sports Methods.....	4
L160, Principles of Teaching Gymnastics.....	2
L161, Folk Dancing.....	2
L164A-L164B, Advanced Dancing	4
L168, Physiology of Exercise	2
L169, Technique of Teaching Activities.....	3
170, Recreational Leadership	2
L173, Principles of Physical Education.....	2
L177, Individual Program Adaptations.....	2
L185, Techniques of Individual Sports.....	1

Unless minor subject is English, General Science, or Social Science.
Chosen from L2A, L2B, L3A, L3B, L3C, L3D, L4B, L5A, L6A, L6B,
L7A, L8A, L8B, L8C, L8D, L10A, L10B, or L11A.
See Subject Matter Requirements in the Lower Division.

WOMEN—Continued

UPPER DIVISION—Continued

Physical Education—Continued	Units
Political Science 101, American Institutions (or substitute)-----	2
Electives, including minor-----	6

60

SUMMARY

Aesthetics -----	2
Education -----	22
English -----	6
Health Education -----	4
*Natural Sciences (including Biology 10A-10B or substitute, and Zoology 20) -----	14
Physical Education major-----	37½
Psychology -----	3
*Social Sciences (including Social Science 1A and Political Science 101) -----	14
Speech Arts -----	3
Electives, including a teaching minor-----	18½

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Special Credential in Correction of Speech Defects The credential is available to graduate students who have successfully completed two years of teaching in any field. Specialized courses are required for certification plus a total of 100 hours of clinical experience in the treatment of articulatory and nervous disorders of speech.

* See page 24.

THE BACHELOR OF EDUCATION DEGREE

General Requirements

The Bachelor of Education Degree will be granted upon the successful completion of 124 semester hours of college or university work or the equivalent. Of this total requirement at least 106 semester hours of work shall be completed in regular campus classes, extension classes, or in correspondence courses under college or university direction; and not to exceed eighteen semester hours of credit may be allowed for experiences and activities that can be evaluated as equivalent to regular academic work.

Residence Requirements

Twenty-four semester hours of work completed in the State Colleges of California will be accepted as satisfying residence requirements, provided that at least twelve units of this work has been completed at the San Diego State College subsequent to June 1, 1934, and provided that not more than six units of the remaining twelve may be taken in extension courses.

Purpose of the Degree

The establishment of this degree provides an opportunity for improving the professional training of those teachers who are now in service and who do not meet the standards of training at present required of new people entering the teaching profession.

The degree is professional in character and is not intended to qualify students for graduate standing in the universities.

The following classes of teachers are eligible for candidacy for the Bachelor of Education Degree:

1. Graduates of the 2-year, 2½-year, or 3-year curricula of the California State colleges when these institutions were normal schools or teachers colleges, who have had five or more years of teaching experience.
2. Holders of California life diplomas or those who have taught five or more years in the public schools of California.

Nature of Work and Fields of Study

Candidates will take academic courses designed to strengthen them in the fields of knowledge in which their initial training is inadequate. Professional courses in education will be included to qualify candidates to teach the newer curricula by means of the newer methods. All work will as far as possible be provided in classes for mature and experienced teachers.

Each candidate for the Bachelor of Education Degree must include in the last 60 semester hours of credit earned a minimum of six semester hours in each of three of the following six fields of knowledge.

1. Professional courses
2. Social sciences
3. Natural science
4. Psychology and philosophy
5. Fine arts and literature
6. Physical education, hygiene, and recreation

Effective Dates of the Bachelor of Education Curriculum

The operation of this curriculum shall not extend beyond February 1, 1947. All applications for candidacy must be filed and at least six semester hours of work completed before February 1, 1942. All the requirements must be completed and the degree conferred prior to February 1, 1947.

Application for Candidacy

Anyone desiring to establish candidacy for this degree should secure an application blank from the Registrar's office. An evaluation of record cannot be made until the application blank has been entirely filled out and filed with complete transcripts of academic record. A two-dollar evaluation deposit must accompany each application. Applications should be filed well in advance of the time of anticipated enrollment.

PROFESSIONAL AND PREPROFESSIONAL CURRICULA

Professional and preprofessional courses, ranging in length from two years to three and four years of collegiate work, are offered by this institution. The following curricular outlines meet typical requirements for admission to professional schools of law, medicine, dentistry, nursing, pharmacy, optometry, social service, public service, journalism, agriculture, and engineering. The student may modify these suggested outlines of study whenever the peculiar requirements of the professional school of his choice makes it seem advisable for him to do so.

The degree curricula in liberal arts may be modified to include the course outlines which follow. For a complete statement of the requirements for the junior certificate and the degree see page 23 and following pages.

Prelegal Curriculum

The entrance requirements of law colleges range from two years to three and four years of prelegal work. The lower division requirements of the liberal arts curricula should be met in full whether the curriculum extends over a period of two, three, or four years.

The following curriculum meets the recommendations of standard American law colleges for a broad and liberal education in those fields of human knowledge commonly involved in human affairs and those which have cultural and disciplinary values. For the majority of prelegal students a major in economics, as provided for in the following curriculum, furnishes the most effective preparation for later professional study in law and for later activities in the field of business. However, for some students a major, or at least strong minors, in English, history, or political science, may provide a suitable preparation.

The high school program should include the following subjects: elementary algebra, 1 unit (2 semester credits); plane geometry, 1 unit; intermediate algebra, 1 unit; foreign language, 3 units in one language or 2 units in each of two languages.

Following is a recommended arrangement of courses:

FRESHMAN YEAR

		Units
Physical Education	-----	$\frac{1}{2}$
Health Education 1 or 2	-----	2
*Foreign Languages (if needed to complete requirement)	-----	3-5 3-5
*Natural Science	-----	3-5 3-5
*Speech Arts 1A-1B or English elective	-----	3 3
Economics 14A-14B	-----	3 3
Psychology 1A	-----	3
Electives ¹	-----	0-4 0-3

15 $\frac{1}{2}$ 15 $\frac{1}{2}$

SOPHOMORE YEAR

Physical Education	-----	$\frac{1}{2}$	$\frac{1}{2}$
*Additional Natural Science (if needed to meet requirement)	-----	3	---
Economics 1A-1B	-----	3	3
Philosophy 5A-5B or Mathematics 3A-3B	-----	3	3
Political Science 1A-1B or 71A-71B	-----	3	3
Electives ¹	-----	3	6

15 $\frac{1}{2}$ 15 $\frac{1}{2}$

JUNIOR YEAR

Economics 121	-----	3	---
Economics 133	-----	3	---
Economics 140	-----		3
Economics elective	-----		3
History 151A-151B or 175A-175B	-----	3	3
Political Science 111 and 113 or 143A-143B	-----	3	3
Electives ²	-----	3	3

15 15

SENIOR YEAR

Economics 100	-----	3	---
Economics 102 or 111	-----	---	3
Economics 199A-199B	-----	1	2
Economics 135 or 131 or 150	-----	3	---
History 111A-111B or 121A-121B	-----	3	3
Political Science 175A-175B	-----	3	3
Electives ²	-----	3	3

16 14

^{*} See lower division requirements, page 24.

¹ Recommended elective: History, 6 units, taken in the freshman or sophomore year.

² Recommended electives: English, philosophy, psychology, sociology.

Preoptometry Curriculum

The high school program should include the following subjects: elementary algebra, 1 (year) unit; plane geometry, 1 unit; algebraic theory, $\frac{1}{2}$ -unit; trigonometry, $\frac{1}{2}$ -unit; physics, 1 unit; chemistry, 1 unit; foreign language, 3 units.

The following curriculum prepares for junior standing in university schools of optometry:

FRESHMAN YEAR		Units	
Physical Education	-----	$\frac{1}{2}$	$\frac{1}{2}$
Health Education 1 or 2	-----	2	--
*Foreign Language (if needed to complete requirements)	-----	3	3
Physics 2A-2B	-----	3	3
Physics 3A-3B	-----	1	1
Speech Arts 1A-1B	-----	3	3
*Social Science	-----	3	3
Electives	-----	--	3
		<hr/>	<hr/>
		15 $\frac{1}{2}$	16 $\frac{1}{2}$
SOPHOMORE YEAR			
Physical Education	-----	$\frac{1}{2}$	$\frac{1}{2}$
Chemistry 1A-1B	-----	5	5
Mathematics 3A-3B	-----	3	3
Psychology 1A	-----	--	3
Social Science 1A	-----	3	--
Physiology 1A and 1C ¹	-----	--	5
Electives	-----	4	--
		<hr/>	<hr/>
		15 $\frac{1}{2}$	16 $\frac{1}{2}$

Premedical Curriculum

The entrance requirements of medical colleges ordinarily range from three to four years of premedical work. The lower division requirements of the Liberal Arts curricula include the general requirements of standard medical colleges and should therefore be met in full whether the curriculum extends over a period of three or of four years. However, a student who has definitely decided not to become a candidate for a degree in San Diego State College may substitute the lower division requirements of the institution to which he expects to transfer in place of the following courses marked with an asterisk. All plans for premedical work should include an arrangement of courses to meet the requirements of the medical college which the student expects to enter.

A student who is pursuing a four-year premedical curriculum should major in chemistry or zoology in his junior and senior years, and must meet all upper division requirements for the A.B. degree in the Liberal Arts curricula.

The high school program should include the following subjects: elementary algebra, 1 (year) unit; plane geometry, 1 unit; chemistry, 1 unit; physics, 1 unit; French or German, 2 or 3 units. Two units of Latin are recommended.

* See lower division requirements, page 24.

¹ If not available, Zoology 20 may be substituted.

Following is a recommended arrangement of courses:

FRESHMAN YEAR	Units		SOPHOMORE YEAR	Units	
Physical Education -----	$\frac{1}{2}$	$\frac{1}{2}$	Physical Education -----	$\frac{1}{2}$	$\frac{1}{2}$
Health Education -----	2	--	Zoology 1A-1B -----	4	4
Chemistry 1A-1B -----	5	5	Chemistry 7-8 -----	3	3
*English Composition ---	3	3	**Social Science Year Course -----	3	3
**French or German (if needed to meet requirement) ¹ -----	3-5	3-5	**Psychology 1A -----	3	--
**Electives -----	0-2	2-5	**Social Science 1A -----	--	3
			**Additional Year Course ² -----	3	3
	15 $\frac{1}{2}$	16 $\frac{1}{2}$		16 $\frac{1}{2}$	16 $\frac{1}{2}$
JUNIOR YEAR	Units		SENIOR YEAR	Units	
Political Science 101 -----	--	2	Upper division requirements and electives for the major, the minors and the degree (see page 26) -----	15	15
Physics 2A-2B -----	3	3		15	15
Physics 3A-3B -----	1	1			
Chemistry 105 -----	3	--			
Zoology 100 -----	--	3			
Zoology 100D -----	--	1			
Zoology 106 -----	4	--			
Electives -----	4	5			
	15	15			

Prenursing Curriculum

A student who plans to complete a curriculum in nursing leading to a degree and a certificate in nursing in another collegiate institution should ascertain the lower division (junior certificate) requirements of that institution. The lower division requirements of the institution to which the student will transfer may be substituted for the following courses marked with an asterisk wherever the requirements differ.

The high school program should include the following subjects: elementary algebra, 1 (year unit); plane geometry, 1 unit; chemistry, 1 unit; physics, 1 unit; French or German, 2 or 3 units; domestic science (foods), 1 unit; 2 units of Latin are recommended.

* Chosen from English 1B or 1C and 2A, 2B, 2C, 2D, 2E, 2F.

** See lower division requirements, page 24.

¹ German if the major is Chemistry.

² Mathematics 3A-3B or satisfactory substitute if the major is Chemistry.

The following is a recommended arrangement of courses:

FRESHMAN YEAR		Units		SOPHOMORE YEAR		Units	
Physical Education	-----	$\frac{1}{2}$	$\frac{1}{2}$	Physical Education	-----	$\frac{1}{2}$	$\frac{1}{2}$
Health Education	-----	2	--	Psychology 1A-1B	-----	3	3
Chemistry 2A-2B	-----	3	3	Economics 1A-1B	-----	3	3
Bacteriology 1	-----	--	4	**Social Science 1A	-----	3	--
*English Composition	---	3	3	**Additional Year Course		3	3
**French or German (if needed to complete re- quirement)	-----	3-5	3-5	Physiology 1A, 1C ¹	-----	--	5
**Electives	-----	3-5	0-2	Zoology 108	-----	--	3
				Electives	-----	3	--
						15 $\frac{1}{2}$	17 $\frac{1}{2}$
		16 $\frac{1}{2}$	15 $\frac{1}{2}$				

Preidental Curriculum

Candidates for a degree in dentistry should ascertain the entrance requirements of the dental college to which they expect to transfer and should make whatever changes in the following typical requirements that may seem desirable in satisfying the requirements of the dental college.

The high school program should include the following subjects: elementary algebra, 1 (year) unit; plane geometry, 1 unit; chemistry, 1 unit; physics, 1 unit; foreign language, 3 or 4 units.

The following arrangement of courses is recommended:

FRESHMAN YEAR		Units		SOPHOMORE YEAR		Units	
Physical Education	---	$\frac{1}{2}$	$\frac{1}{2}$	Physical Education	-----	$\frac{1}{2}$	$\frac{1}{2}$
Health Education	---	2	--	Chemistry 7-8	-----	3	3
Chemistry 1A-1B	---	5	5	Physics 2A-2B or Zoology 1A-1B	-----	3-4	3-4
*English 1B and 2A or 2B, 2C, 2D, 2E, 2F	-----	3	3	**Social Science Year Course	-----	3	3
**Foreign language (if needed to com- plete requirement)		3	3	**Psychology 1A	-----	3	--
**Electives	-----	3	4	**Social Science 1A	-----	--	3
				**Additional Year Course		3	3
		16 $\frac{1}{2}$	15 $\frac{1}{2}$			15 $\frac{1}{2}$	16 $\frac{1}{2}$

Preagricultural Curricula

The high school program should include the following subjects: elementary algebra 1 (year) unit; plane geometry, 1 unit; algebraic theory, $\frac{1}{2}$ unit; trigonometry, $\frac{1}{2}$ unit; chemistry, 1 unit; physics, 1 unit; mechanical drawing 1 unit.

Students should ascertain the lower division requirements of the agricultural college they expect to enter.

* Chosen from English 1B or 1C and 2A, 2B, 2C, 2D, 2E, 2F.
 ** See lower division requirements for junior standing (junior certificate)
 page 23 and ff.
¹ Offered in the summer session.

The following arrangement of courses is recommended:

Curriculum in Plant Science

FRESHMAN YEAR

	Units	
Physical Education -----	$\frac{1}{2}$	$\frac{1}{2}$
Health Education -----	2	--
Chemistry 1A-1B ¹ -----	5	5
Botany 2A-2B -----	4	4
Physics 2A-2B -----	3	3
Electives ² -----	2	3
	<hr/> 16 $\frac{1}{2}$	<hr/> 15 $\frac{1}{2}$

SOPHOMORE YEAR

Physical Education -----	$\frac{1}{2}$	$\frac{1}{2}$
Economics 1A-1B -----	3	3
Chemistry 7-8 -----	3	3
Geology 1A or 2A -----	3	--
Bacteriology 1 -----	--	4
Zoology 1A -----	4	--
Botany 107 -----	--	4
Electives ² -----	3	1
	<hr/> 16 $\frac{1}{2}$	<hr/> 15 $\frac{1}{2}$

Curriculum in Animal Science

FRESHMAN YEAR

Physical Education -----	$\frac{1}{2}$	$\frac{1}{2}$
Health Education -----	2	--
Chemistry 1A-1B ¹ -----	5	5
Zoology 1A-1B -----	4	4
Physics 2A-2B -----	3	3
Geology 2B -----	--	3
Electives ² -----	2	--
	<hr/> 16 $\frac{1}{2}$	<hr/> 15 $\frac{1}{2}$

SOPHOMORE YEAR

Physical Education -----	$\frac{1}{2}$	$\frac{1}{2}$
Economics 1A-1B -----	3	3
Chemistry 7-8 -----	3	3
Bacteriology 1 -----	--	4
Botany 1A -----	4	--
Zoology 100 -----	--	3
Zoology 20 or 108 -----	--	3
Electives ² -----	5	--
	<hr/> 15 $\frac{1}{2}$	<hr/> 16 $\frac{1}{2}$

¹ See prerequisites, page 78.

² Foreign language if not taken in high school.

Curriculum in Forestry

FRESHMAN YEAR		Units	
Physical Education	-----	$\frac{1}{2}$	$\frac{1}{2}$
Chemistry 1A-1B ¹	-----	5	5
Botany 1A-1B	-----	4	4
*English 1B and Composition	-----	3	3
Mathematics 3A-3B	-----	3	3
		15 $\frac{1}{2}$	15 $\frac{1}{2}$
SOPHOMORE YEAR			
Physical Education	-----	$\frac{1}{2}$	$\frac{1}{2}$
Physics 2A-2B, 3A-3B	-----	4	4
Engineering 1A-1B	-----	3	3
Economics 1A-1B	-----	3	3
Geology 2A	-----	3	--
Chemistry 7	-----	3	--
Botany 107	-----	--	4
Electives ²	-----	--	2
		16 $\frac{1}{2}$	16 $\frac{1}{2}$

Preengineering Curricula

The high school program should include the following subjects: elementary algebra, 1 (year) unit; plane geometry, 1 unit; algebraic theory, $\frac{1}{2}$ unit; solid geometry, $\frac{1}{2}$ unit; trigonometry, $\frac{1}{2}$ unit; chemistry, 1 unit; physics, 1 unit; mechanical drawing, 1 unit.

Students should ascertain the requirements of the engineering college they expect to enter.

Mechanical, Electrical, Civil and Mining Engineering

FRESHMAN YEAR		Units	
Physical Education	-----	$\frac{1}{2}$	$\frac{1}{2}$
Health Education 1	-----	--	2
Mathematics 3A-3B	-----	3	3
Chemistry 1A-1B	-----	5	5
Physics 1A-1B	-----	3	3
†Geology 1A or elective	-----	4	--
Electives	-----	--	3
		15 $\frac{1}{2}$	16 $\frac{1}{2}$

Mechanical and Electrical Engineering

SOPHOMORE YEAR			
Engineering 1A	-----	3	--
Engineering 21	-----	3	--
Engineering L22	-----	--	3
Engineering L23	-----	--	2
Mathematics 4A-4B	-----	3	3
Mathematics 118 or 119	-----	--	3
Physical Education	-----	$\frac{1}{2}$	$\frac{1}{2}$
Physics 1C-1D	-----	3	3
Electives	-----	3	2
		15 $\frac{1}{2}$	16 $\frac{1}{2}$

* Chosen from English 1B or 1C and 2A, 2B, 2C, 2D, 2E, 2F.

¹ See prerequisites, page 78.

² Foreign language if not taken in high school.

† Geology 1A is required in the civil engineering curriculum.

Civil Engineering

SOPHOMORE YEAR

		Units
Astronomy 3	---	2
Engineering 1A-1B	3	3
Engineering 21	3	---
Engineering L23	---	2
Engineering 25	---	3
Engineering 28	3	---
Mathematics 4A-4B	3	3
Physical Education	$\frac{1}{2}$	$\frac{1}{2}$
Physics 1C-1D	3	3
	<hr/>	<hr/>
	15 $\frac{1}{2}$	16 $\frac{1}{2}$

Curriculum in Industrial Physics

This curriculum is designed for students planning to enter industrial positions including certain phases of manufacturing, public utilities and various civil service positions, or those planning on graduate work in industrial physics or related fields.

The high school program should include the following subjects: elementary algebra, 1 (year) unit; plane geometry, 1 unit; algebraic theory, $\frac{1}{2}$ unit; solid geometry, $\frac{1}{2}$ unit; trigonometry, $\frac{1}{2}$ unit; chemistry, 1 unit; physics, 1 unit; mechanical drawing, 1 unit; French or German, 3 units.

FRESHMAN YEAR	Units	SOPHOMORE YEAR	Units
Physical Education	$\frac{1}{2}$ $\frac{1}{2}$	Physical Education	$\frac{1}{2}$ $\frac{1}{2}$
Health Education 1	2	Mathematics 4A-4B	3 3
Mathematics 3A-3B	3 3	Physics 1C-1D	3 3
Chemistry 1A-1B	5 5	Any combination of: En-	
Physics 1A-1B	3 3	gineering 1B, 21, L22	3 3
*English	3 3	Engineering L23	---
Electives	---	*Foreign Language	3-5 3-5
	16 $\frac{1}{2}$ 16 $\frac{1}{2}$	*Social Science 1A	3
		Electives	---
			0-2
			<hr/>
			15 $\frac{1}{2}$ -17 $\frac{1}{2}$ 16 $\frac{1}{2}$

JUNIOR YEAR	Units	SENIOR YEAR	Units
Physics	6 6	Chemistry 110A-110B ¹	3 3
Engineering 128 ¹	3	Upper division require-	
Engineering 125 ¹	---	ments and electives for	
*Economics 1A-1B	3 3	the major and the de-	
*Psychology 1A	3	gree (see page 26)	12 12
Political Science 101	2		---
Electives	---		15 15
	<hr/>		<hr/>
	17 15		

* Lower division requirements must be met in full. See page 23. Students who, during the first two years, chose the regular engineering curriculum will find that certain lower division requirements will have to be deferred until the junior year. All lower division requirements must be completed before senior standing is granted.

¹ Engineering and chemistry should be used to satisfy requirements for the minors. In approved cases mathematics may be substituted for the chemistry minor.

This curriculum is designed for those planning to enter the field of industrial chemistry in the production, sales, or management of the industry.

Following is the recommended arrangement of courses:

JUNIOR YEAR		Units		SENIOR YEAR		Units	
Chemistry	105A-B-----	3	3	Chemistry	110A-110B--	3	3
Chemistry	112 -----	2	--	Chemistry	111A-111B--	2	2
Chemistry	144 -----	--	3	Chemistry	127 -----	2	--
Engineering	125, 128---	3	3	Chemistry	Elective-----	0	1
*Economics	1A-1B-----	3	3	Physics (upper division)		3	3
Political Science	101-----	2	--	Electives	-----	6	7
*Psychology	1A-----	--	3				
Electives	-----	3	2			16	16
		16	17				

As the vocational demand for students of public administration is comparatively limited the student of public administration will do well to prepare himself also for a related field of work for which there is not only a cultural but also a vocational demand. The candidate for a public administrative position who is equipped for a career in a professional, scientific or technical field that is common to both public and private enterprise has a distinct advantage. The special courses in public administration listed in the following curriculum are supplementary courses designed for exploration and orientation. The curriculum as a whole provides for a major in economics, outlines a general preparation for the public service in social science fields and furnishes a basis for more highly specialized graduate courses in the field of public administration.

(57)

The high school program should include the following subjects: elementary algebra, 1 (year) unit; plane geometry, 1 unit; intermediate algebra, 1 unit; foreign language, 3 units in one language or 2 units in each of two languages.

The following arrangement of courses is recommended:

FRESHMAN YEAR			Units	SOPHOMORE YEAR			Units
Physical Education	----		$\frac{1}{2}$ $\frac{1}{2}$	Physical Education	----		$\frac{1}{2}$
Health Education 1 or 2	---	2	--	*Additional Natural Science (if needed to meet requirements)	-----	3	--
*English	-----	3	3	*Additional year course	---	3	3
*Foreign Language (if needed to complete requirements)	-----	3-5	3-5	Economics 1A-1B	-----	3	3
*Natural Science	-----	3-5	3-5	Political Science 1A-1B or 71A-71B	-----	3	3
Economics 14A-14B	-----	3	3	Psychology 1A	-----		3
Electives	-----	0-5	0-3	Electives	-----	4	3
			<hr/> 16 $\frac{1}{2}$ 15 $\frac{1}{2}$				<hr/> 16 $\frac{1}{2}$ 15 $\frac{1}{2}$
JUNIOR YEAR			Units	SENIOR YEAR			Units
Economics 100	-----	3	--	Economics 150	-----	--	3
Economics 140	-----	--	3	Economics 199A-199B	---	1	2
Economics 102	-----	--	3	Economics electives	-----	3	3
Economics 131	-----	3	--	Political Science 143A-143B	-----	3	3
Political Science 175A-175B	-----	3	3	Electives ¹	-----	9	3
Electives ¹	-----	6	6				<hr/> 16 14
			<hr/> 15 15				

Public Service Curricula—Clerical and Fiscal Service

The curriculum in Clerical and Fiscal Service leads to the A.B. degree with a major in commerce. It outlines a course of training for clerical and clerical-executive service in accounting and auditing, budgeting, statistical work and miscellaneous financial and fiscal work.

The high school program should include the following subjects: elementary algebra, 1 (year) unit; plane geometry, 1 unit; intermediate algebra, 1 unit; foreign language, 3 units in one language or 2 units in each of two languages.

* See lower division requirements, page 23.

¹ See minor requirements, page 26. Students who desire to prepare for a graduate major in political science should elect Political Science 111 and 113 and may satisfy requirements for a major in economics by substituting Political Science 143A-143B for elective courses in economics.

FRESHMAN YEAR	Units		SOPHOMORE YEAR	Units	
Physical Education -----	$\frac{1}{2}$	$\frac{1}{2}$	Physical Education -----	$\frac{1}{2}$	$\frac{1}{2}$
Health Education 1 or 2 ---	2	--	*Additional Natural Sci-		
English Composition ---	3	3	ence (if needed to meet		
Foreign Language (if			requirements) -----	3	--
needed to complete re-			Economics 1A-1B -----	3	3
quirement of 10 units) _0-5	0-5		Economics 14A-14B -----	3	3
Natural Science -----	3-5	3-5	Political Science 1A-1B		
Mathematics D and Eco-			or 71A-71B -----	3	3
nomics 2 -----	3	3	Psychology 1A -----	--	3
Electives ¹ -----	0-5	0-6	Electives ¹ -----	4	3
	<hr/>	<hr/>		<hr/>	<hr/>
	16 $\frac{1}{2}$	15 $\frac{1}{2}$		16 $\frac{1}{2}$	15 $\frac{1}{2}$
<hr/>			<hr/>		
JUNIOR YEAR	Units		SENIOR YEAR	Units	
Economics 121 -----	3	--	Economics 161 -----	3	--
Economics 131 -----	3	--	Economics 167 -----	--	3
Economics 140 -----	--	3	Economics 199A-199B ---	1	2
Economics 160A-160B ---	3	3	Political Science 143A-		
Political Science 101 -----	2	--	143B -----	3	3
Electives ² -----	4	9	Electives ² -----	9	6
	<hr/>	<hr/>		<hr/>	<hr/>
	15	15		16	14

Public Service Curricula—Social Work

The professional curriculum in social service prepares for admission to graduate work in recognized American schools of social work. This curriculum should be pursued by those who plan careers in federal, state and local welfare work; social work in public schools including preparation for a teaching credential; family and children's private case work agencies; social settlement work; county probation work; child welfare agencies; statistical and investigational work in private and public agencies; work in public institutions for the defective and delinquent; medical social service and psychiatric social work in hospitals and clinics; executive positions in social work; and social work in numerous other organizations.

The lower division requirements of the Liberal Arts curricula include the general requirements of recognized professional schools of social work and should therefore ordinarily be met in full. However, a student who has definitely decided not to become a candidate for a degree in San Diego State College may substitute the lower division requirements of the institution to which he expects to transfer wherever the requirements differ.

A student who pursues a four-year curriculum in San Diego State College should major in Social Science and minor in Psychology and in a second field of his own choice.

The following subjects should be completed in high school: elementary algebra, 1 (year) unit; plane geometry, 1 unit; algebraic theory, $\frac{1}{2}$ unit;

See lower division requirements, page 23 and ff.

Recommended electives: Economics 18A-18B and Secretarial Training 3A.

See minor requirements, page 26.

Following is a recommended arrangement of courses:

(60)

Practical training in news reporting and editing for student publications and for the daily and weekly press is emphasized.

The high school program should include the following subjects: elementary algebra, 1 (year) unit; plane geometry, 1 unit; foreign language, 3 units in one language or 2 units in each of two languages; English, 4 units; natural science, 1 or 2 units in the junior or senior year.

Following is a recommended arrangement of courses:

FRESHMAN YEAR	Units		SOPHOMORE YEAR	Units	
Physical Education-----	$\frac{1}{2}$	$\frac{1}{2}$	Physical Education-----	$\frac{1}{2}$	$\frac{1}{2}$
Health Education-----	2	--	Economics 1A-1B or Political Science 1A-1B or 71A-71B-----	3	3
*English-----	3	3	Journalism 51A-51B-----	3	3
History 4A-4B or 8A-8B or Political Science 1A-1B or 71A-71B-----	3	3	*Philosophy 5A-5B (if needed to complete additional year course requirement)-----	3	3
*Foreign Language (if needed to complete requirement)-----	0-5	0-5	*Natural Science-----	3	3
Journalism 10A-10B-----	1	1	Psychology 1A-----	3	--
Electives ¹ -----	0-5	0-6	Social Science 1-----	--	3
	<hr/>	<hr/>	Electives ² -----	1	--
	16 $\frac{1}{2}$	15 $\frac{1}{2}$		<hr/>	<hr/>
				16 $\frac{1}{2}$	15 $\frac{1}{2}$
JUNIOR YEAR	Units		SENIOR YEAR	Units	
Social Science Major ³ ---	6	6	Social Science Major ³ ---	6	6
English Minor ⁴ -----	3	3	Second Minor ⁴ -----	3	3
Journalism 151A-151B---	1	1	Journalism ⁵ -----	2	2
Journalism ⁵ -----	2	2	Journalism 199-----	--	2
Electives-----	3	3	Political Science 101 (if not included in major)---	2	--
	<hr/>	<hr/>	Electives-----	2	2
	15	15		<hr/>	<hr/>
				15	15

See lower division requirements for junior standing, page 23 and ff.
Recommended electives: Aesthetics 1A-1B, 4 units; Aesthetics 5, 2 units; Anthropology 50A-50B, 6 units; Geography 2, 3 units; Sociology 50A-50B, 6 units; Secretarial Training L2A, or equivalent, no credit; Speech Arts 1A, 3 units.

Recommended electives: Journalism L53A-L53B, 2 or more units.
The Social Science major must include a concentration of 12 upper division units in one of the following fields and 6 units in each of two others: Anthropology, Economics, Geography, History, Political Science, Sociology.

See minor requirements, page 26.

Not more than six units of Journalism L53A-L53B and L153A-L153B may be counted toward the A.B. degree and not more than four units of Journalism 153C-153D may be counted.

TWO-YEAR COMPLETION CURRICULA

These curricula are organized for students who have not yet qualified for enrollment in a four year curriculum leading to the Bachelor of Arts degree, and for regularly qualified students who prefer a short college completion course of two-years duration.

The following special courses are designed for students enrolled in a two-year completion curriculum: Astronomy L40; Biology L40; English L40B, L40C; Geography L40A, L40B; Geology L40; Physical Science L40; Psychology L40; Social Science L40, L45; Sociology L40A, L40B, Spanish L40A, L40B; Speech Arts L40.

Any other course designated by the prefix "L" (e.g. English L1A) is regularly open to students enrolled in a two-year completion curriculum. See Limited Electives, page 27. The following courses are also regularly open to two-year students: Aesthetics 1A, 1B, 2; Art 6A, 6B, 8A, 8B, 11A, 11B, L14A, 14B, 52A, 61B, 94A, B; Health Education 1, 2; Mathematics C, D, E, S; Music 1B, 11A, 11B, 11C, 11D, 12A, 12B, 12C, 12D, 13A, 13B, 13C, 13D, 15A, 15B, 15C, 15D, 20A, 20B, 20C, 20D, 26A, 26B, 26C, 26D, 27A, 27B; Occupations; Speech Arts 55A, 55B.

A two-year student may elect any other college lower division subject under guidance where his high school scholarship record, or his scores in the aptitude and achievement tests, or his subsequent college record indicate probable success in that field. He must, of course, meet all prerequisites for the course under consideration.

Two-year Curriculum in Liberal Arts

FIRST YEAR	Units	Units	SECOND YEAR	Units	Units
	Sem. I	Sem. II		Sem. I	Sem. II
English L1A-L40B or English Elective*	3	3	Speech Arts L40 or English L40C	3	--
Physical Science L40 or equivalent**	3	--	Social Science (Economics L10A, Merchandising L20, Sociology L40B, or Social Science Elective*)	3	--
Biological Science L40 or equivalent**	--	3	Social Science L45	--	3
Social Science L40	3	--	Psychology L40	--	3
Sociology L40A	--	3	Elective*	9	10
Elective	5	5	Physical Education	$\frac{1}{2}$	$\frac{1}{2}$
Orientation	1	--		15 $\frac{1}{2}$	16 $\frac{1}{2}$
Health Education 1 or 2	--	2			
Physical Education	$\frac{1}{2}$	$\frac{1}{2}$			
	15 $\frac{1}{2}$	16 $\frac{1}{2}$			

* See foregoing list in italics.

** Not less than 6 units of natural science must be completed in college.

Two-year Curriculum in Art

	Units	Units		Units	Units
FIRST YEAR	Sem. I	Sem. II	SECOND YEAR	Sem. I	Sem. II
English L1A, L40B or English Elec- tive* -----	3	3	Social Science L40 or equivalent ---	3	--
Physical Science L40 or equivalent	3	--	Social Science L45 -----	--	3
Biological Science L40 or equivalent	--	3	Art Elective** ----	9	9
Health Education 1 or 2 -----	--	2	Elective* -----	3	4
Art 6A-6B -----	2	2	Physical Education--	$\frac{1}{2}$	$\frac{1}{2}$
Aesthetics 5 or equivalent -----	2	--		<hr/> 15 $\frac{1}{2}$	<hr/> 16 $\frac{1}{2}$
Art A-B or equiva- lent -----	2	2			
Elective* -----	3	4			
Physical Education--	$\frac{1}{2}$	$\frac{1}{2}$			
	<hr/> 15 $\frac{1}{2}$	<hr/> 16 $\frac{1}{2}$			

Two-year Curriculum in Music

	Units	Units		Units	Units
FIRST YEAR	Sem. I	Sem. II	SECOND YEAR	Sem. I	Sem. II
English L40A, L40B or English Elec- tive* -----	3	3	Social Science L40 or equivalent ---	3	--
Physical Science L40 or equivalent	3	--	Social Science L45 -----	--	3
Biological Science L40 or equivalent	--	3	Speech Arts or For- eign Language*--	3	3
Health Education 1 or 2 -----	--	2	Music 4A-4B* or approved substi- tute -----	3	3
Music L1A-1B or equivalent -----	2	2	Applied Music ----	1-2	1-2
Aesthetics 1A-1B --	2	2	Elective (including at least 2 units of music)* -----	4-5	5-6
Music Elective* ----	1	1	Physical Education--	$\frac{1}{2}$	$\frac{1}{2}$
Applied Music ----	1-2	1-2		<hr/> 15 $\frac{1}{2}$	<hr/> 16 $\frac{1}{2}$
Elective* -----	2-3	1-2			
Physical Education--	$\frac{1}{2}$	$\frac{1}{2}$			
	<hr/> 15 $\frac{1}{2}$	<hr/> 16 $\frac{1}{2}$			

* See list in italics on page 62.

** Art Elective: Art 8A-8B, 7, 11A-11B, 14A-14B, 15A-15B, 16A-16B, 2A, 94.

Two-year Curriculum in Speech Arts

	Units	Units		Units	Units
FIRST YEAR	Sem. I	Sem. II	SECOND YEAR	Sem. I	Sem. I
English L1A, L40B or English Elec- tive* -----	3	3	Physical Science L40 or equivalent --	--	3
Health Education--	2	--	Speech Arts, Elec- tive (Oral In- terpretation, Dramatic Expression)* ---	3	3
Speech Arts L40---	3	--	Art 52A -----	2	--
Speech Arts 55A- 55B -----	3	3	Art 94 -----	2	--
Aesthetics 1A-1B--	2	2	Social Science L40 or equivalent ----	3	--
Art 6A-6B -----	2	2	Social Science L45 -----	--	3
Biological Science L40 or equivalent --	--	3	Psychology L40----	3	--
Physical Education--	$\frac{1}{2}$	$\frac{1}{2}$	Physical Education--	$\frac{1}{2}$	$\frac{1}{2}$
Elective* -----	--	3	Elective* -----	3	6
	<hr/> 15 $\frac{1}{2}$	<hr/> 16 $\frac{1}{2}$		<hr/> 16 $\frac{1}{2}$	<hr/> 15 $\frac{1}{2}$

Two-year Curricula in Merchandising, Accountancy, and Secretarial Training

The curricula in merchandising, accountancy, and secretarial training offer a short business preparation of college grade. The four-year course in the Liberal Arts curricula leading to the A.B. degree with a major in economics or commerce offers a more thorough preparation for business not only by furnishing a richer background of knowledge but by encouraging individual research work and a research attitude of mind in order that the student may become more resourceful, self-reliant, and keener to analyze and cope with business and social conditions and problems.

* See list in italics on page 62.

Merchandising

FIRST YEAR	Units	Units	SECOND YEAR	Units	Units
	Sem. I	Sem. II		Sem. I	Sem. II
English L8-----	--	3	Merchandising L20_	3	--
Speech Arts L40----	3	--	Merchandising L24B	--	3
Secretarial Training			Merchandising L27_	--	3
LA -----	1	--	Economics 18A-18B	3	3
Secretarial Training			Economics L10A-		
L1A -----	3	--	L10B -----	3	3
Secretarial Training			Psychology L40----	3	--
L3A -----	--	3	Physical Education_	$\frac{1}{2}$	$\frac{1}{2}$
Economics L15A-			Social Science		
L15B -----	3	3	L45 -----	--	3
Merchandising L25_	3	--	Physical Science		
Merchandising L26_	--	2	L40 or Biological		
Art 7 -----	--	3	Science L40 or		
Biological Science			equivalent -----	3	--
L40 or equivalent			Elective* -----	1	--
or					
Physical Science				<u>16$\frac{1}{2}$</u>	<u>15$\frac{1}{2}$</u>
L40 or equivalent	3	--			
Health Education 1					
or 2 -----	--	2			
Physical Education_	$\frac{1}{2}$	$\frac{1}{2}$			
	<u>16$\frac{1}{2}$</u>	<u>16$\frac{1}{2}$</u>			

Accountancy

FIRST YEAR	Units	Units	SECOND YEAR	Units	Units
	Sem. I	Sem. II		Sem. I	Sem. II
Economics L15A-			Economics L65A-		
L15B -----	3	3	L65B -----	3	3
English L8 -----	--	3	Merchandising L20_	3	--
English Elective* --	3	--	Merchandising L24B	--	3
Secretarial Training			Secretarial Training		
L1A-L1B -----	3	3	L3A -----	3	--
Health Education 1			Economics 18A-18B	3	3
or 2 -----	--	2	Economics L10A-		
Physical Science			L10B -----	3	3
L40 or equivalent	3	--	Social Science		
Biological Science			L45 -----	--	3
L40 or equivalent	--	3	Elective* -----	--	1
Elective* -----	3	2	Physical Education_	$\frac{1}{2}$	$\frac{1}{2}$
Physical Education_	$\frac{1}{2}$	$\frac{1}{2}$		<u>15$\frac{1}{2}$</u>	<u>16$\frac{1}{2}$</u>
	<u>15$\frac{1}{2}$</u>	<u>16$\frac{1}{2}$</u>			

* See list in italics on page 62.

Secretarial Training

FIRST YEAR	Units	Units	SECOND YEAR	Units	Units
	Sem. I	Sem. II		Sem. I	Sem. II
Economics L16A-			Physical Science		
L16B -----	3	3	L40 or equivalent	3	--
Secretarial Training			Biological Science		
LA -----	1	--	L40 or equivalent	--	3
English L8 -----	3	--	Economics 18A-18B	3	3
English Elective*--	--	3	Economics L10A-		
Secretarial Training			L10B -----	3	3
L1A-L1B -----	3	3	Secretarial Training		
Secretarial Training			L6A-L6B -----	3	3
L5A-L5B -----	5	5	Secretarial Training		
Health Education 1			L3A -----	3	--
or 2 -----	--	2	Social Science		
Physical Education--	$\frac{1}{2}$	$\frac{1}{2}$	L45 -----	--	3
			Elective* -----	--	1
			Physical Education--	$\frac{1}{2}$	$\frac{1}{2}$
	<u>15$\frac{1}{2}$</u>	<u>16$\frac{1}{2}$</u>		<u>15$\frac{1}{2}$</u>	<u>16$\frac{1}{2}$</u>

* See list in italics on page 62.

COURSES OF INSTRUCTION

Figures in parentheses indicate the unit value of the course.

Courses numbered from 1 to 99 are lower division (freshman or sophomore courses; those numbered 100 and above are upper division (junior or senior) courses. The prefix "L" is used to denote courses which are classified as limited electives for students enrolled in the liberal arts curricula. See page 27. Students may not ordinarily apply more than a total of twelve units of credit, earned in courses so designated, toward the requirements for the bachelor of arts degree. The prefix "E" indicates courses which are offered through the Extension service, and "S" denotes courses which are available during the Summer Session.

Freshmen are not admitted into upper division courses.

A sophomore may enroll in an upper division course for lower division credit provided he has earned an average grade of not less than 1.5 grade points in all college work undertaken, and provided he receives the instructor's permission to enroll in the course. A second semester sophomore may enroll in an upper division course for upper division credit without the foregoing grade limitations provided the units earned in the upper division course or courses are in excess of the sixty units required in the lower division.

One "unit" represents an hour recitation or lecture, together with the required preparation, or three hours laboratory work each week for a semester of 18 weeks.

The semester in which courses are offered is designated as follows: (1) Fall; (2) Spring; (3) Fall and Spring; (4) Year course, beginning either Fall or Spring; (5) Year course. Courses designated as "Year course" begin in the Fall, but those given in the list below may be taken in the reverse order (i.e., the second semester of the course may be taken before the first semester) or the second semester may be taken alone. In the case of other year courses, students who have completed the equivalent of the first semester's work may seek permission from the instructor to take the second half of the course. Single semester courses having the letter B as a part of the number (as for example, Art 61B) are not supposed to follow another course of the same number unless so indicated in the prerequisites to the course.

Year Courses Open to Registration in the Middle of the Year

Aesthetics 1A-1B	Spanish 105A-105B
Aesthetics 102A-102B	Spanish 110A-110B
Anthropology 50A-50B	History 4A-4B
Anthropology 151A-151B	History 8A-8B
Economics 160A-160B	History 111A-111B
English 30A-30B	History 121A-121B
English 52A-52B	History 146A-146B
English 56A-56B	History 151A-151B
English 106A-106B	History 156A-156B
English 107A-107B	History 171A-171B
English 117A-117B	History 173A-173B
French 101A-101B	Merchandising L24A-L24B
French 105A-105B	Political Science 1A-1B
French 107A-107B	Political Science 71A-71B
French 110A-110B	Political Science 175A-175B
French 111A-111B	Speech Arts 55A-55B
Spanish 101A-101B	Speech Arts 55C-55D
Spanish 102A-102B	Speech Arts 155A-155B
Spanish 104A-104B	Speech Arts 156A-156B

Although the College fully expects to carry out the arrangements planned in the list of courses, it reserves the right to make changes. Classes in which the enrollment does not come up to the minimum number set by the State Department of Education may not be offered or may be postponed.

AESTHETICS

LOWER DIVISION COURSES

1A-1B Survey of Music Springston

Correlation of music and other arts. Designed to stimulate enjoyment of music by developing intelligent listening. The elements of music, its structure, folk music of all countries, musical instruments, and the contributions of the best known composers, with some biographical study of these men. Compositions are presented by orthophonic recording and by class members. Attendance at a number of local concerts is required. No previous musical training or background is necessary. Music majors are required to complete additional assignments for full credit.

Year course (2-2)

5 Fundamentals of Art Jackson

An illustrated lecture course involving a study of aesthetic meaning and its relation to the structure of art products. Designed to increase both understanding and appreciation of the visual world in general and of the fine arts in particular.

Fall and Spring (2)

50 Appreciation and History of Art Jackson

A survey of aesthetic development as revealed in the painting, sculpture, architecture, and handicrafts from dawn of art to the Renaissance. Illustrated.

Fall (2)

ANTHROPOLOGY

UPPER DIVISION COURSES

102A-102B History of Music

D. F. Smith

The various movements in the development of music as related to the other arts. The chronological development of the art of music, with particular emphasis on the larger works. Considerable attention is given to the works of modern composers. Many symphonic works are studied from the orchestral scores. Music majors are required to complete additional assignments for full credit. Prerequisite: Aesthetics 1A or 1B.

Year course (2-2)

150 Appreciation and History of Art

Jackson

The period from the Renaissance through the modern school, treated in the same manner as in Aesthetics 50.

Spring (2)

ANTHROPOLOGY

Lower division preparation for the liberal arts major in social science with concentration in anthropology: Anthropology 50A-50B, Sociology 50A, 50B, Geography 1, 2. Recommended: Geology 1A-1B, Economics 1A-1B. See requirements for the social science major, page 134.

LOWER DIVISION COURSES

50A-50B Man's Evolutionary History

Rogers

Origin and antiquity of man. Theories of human descent. Classification of races. Origin and early development of civilization.

Year course (3-3)

54 Social Anthropology

Rogers

An anthropological study of social institutions in primitive and civilized societies. The evolution of family organization, religion, property right, and government traced in elementary and advanced civilization.

Spring (3)

55 Culture History

Rogers

The prehistoric and historic development of culture types contributing to Western European and American civilization of today. Egyptian, Semitic, Indo-European, and Oriental cultures examined in light of their bearing on contemporary civilization. Methods of culture spread examined and applied to specific traits. Spengler's theory of history and similar doctrines reviewed.

Fall (3) (Not offered in 1941-42)

UPPER DIVISION COURSES

151A The American Indian: North American

Rogers

Pre-Columbian cultures of the North American Indian. The origin and migration of New World peoples. Industries, arts, crafts, social organization, religion and other phases of American Indian civilization.

Fall (3) (Offered in 1941-42 and alternate years)

ART

151B The American Indian: Middle America

Rogers

The development of civilization in Pre-Columbian Mexico and Central America: Aztec, Mayan, and related cultures.

Spring (3) (Offered in 1941-42 and alternate years)

152 Primitive Cultures (Ethnography)

Rogers

History and cultural development of primitive races of mankind. Consideration given to industries, arts, social organization, and religion of preliterate culture groups.

Fall (3) (Offered in 1942-43 and alternate years)

153 Primitive Religion

Rogers

Beliefs and ritual of primitive man. Magic and religion. Forms of animism and polytheism. Primitive mentality and the supernatural.

Spring (3) (Offered in 1942-43 and alternate years)

ART

Candidates for a teaching credential in art should refer to the statement "Admission to Teacher Training" on page 28.

Lower division preparation for the liberal arts major in art: Aesthetics 5, 50; fourteen units carefully chosen from lower division art courses to meet the stated prerequisites for upper division work. These shall include Art A-B, 6A-6B, or the accepted equivalents, and four elective units in art.

Liberal arts major (upper division): Twenty-four upper division units. These shall include Art 112A, 115A-115B, 152A, 195, or the accepted equivalent; Aesthetics 150.

It is recommended that the students in meeting degree requirements and in choosing free electives, select from the following courses: Anthropology 151A-151B; English 106A-106B, 107A-107B, 117; French A-B; History 4A-4B, 111A-111B.

For courses in Appreciation and History of Art and Fundamentals of Art, see Aesthetics, page 68.

LOWER DIVISION COURSES

A-B Freehand Drawing

Houser

Semester I: Problems involving perspective to develop ability to draw still life, furniture, exteriors, interiors, and the like.

Semester II: Outdoor sketching of landscape and figure, and studio work from still life and costume pose. Emphasis on composition and technique in the handling of various mediums, pencil, pen and ink, charcoal, pastel, and water color.

Year course (3-3)

6A Structure

Hamann, Patterson

Fundamentals of design and composition and theory of color. Basic course used as a prerequisite for all advanced work.

Fall and Spring (2)

6B Structure (continued)**Jackson, Patterson**

Original work in creative design with special stress on modern tendencies.
Prerequisite: Art 6A.

Fall and Spring (2)

L7 Line, Color and Display**Patterson**

The principles of line, color and arrangement applied to store and window display. Study and observation of windows, color and materials used in display. Building models and practical problems in arranging colors, textures, and forms in windows to fit different kinds of merchandise.

Fall and Spring (2)

8A-8B Appreciation of Costume and Home Furnishing **Patterson**

8A A survey of the periods of costume and home furnishing from primitive man to the present time.

Fall (2)

8B Lectures, discussions, and demonstrations on the underlying principles of dress and home furnishing. (a) A study of the design, color, texture, fabric, and fashion in modern dress with emphasis on suitability to the figure, the personality and the occasion. (b) Line, form, color, texture, fabric, and lighting in relation to the home; the selection and arrangement of furniture, rugs, fabrics, pictures, etc., for all rooms of the home.

Spring (2)

11A Industrial Design**Hamann**

Original design in its relationship to various fields—ceramics, furniture, textiles, jewelry, and books. A survey and study of materials and processes in machine and hand production. Prerequisite: Art 6A-6B.

Fall (2)

11B Advanced Industrial Design**Hamann**

Advanced problems with emphasis upon the related factors of material and production. Application of problems designed. Prerequisites: Art 6A-6B, 11A.

Spring (2)

L14A Lettering**Houser**

Fundamental art principles applied to lettering. Practice for quick, accurate lettering; original problems using letters as design. Prerequisite: Art 6A.

Fall (2)

14B Posters and Commercial Art**Houser**

The application of lettering to posters, newspaper and magazine advertising, and other forms of commercial art. The study of composition combined with lettering and special study of modern tendencies in publicity. Prerequisites: Art 6A, 14A.

Spring (2)

52A Stage Design**Patterson**

Theory of line, color, and lighting in relation to the stage. Original sets and costumes developed on a miniature stage. Study of the development of the modern art of the theater. Upper division credit will be given in this course to students of junior standing upon the completion of extra theme work and additional original problems. Prerequisite: Art 6A.

*Fall (2)***94 Costume Design****Patterson**

Original designs of modern costumes suitable to the individual or to distinct types; the drawing of fashion figures; the rendering of fabrics and textures. Prerequisite: Art 6A.

*Spring (2)***95 Home Decoration (See Art 195)****Patterson****15A-15B Life Drawing****Jackson**

Drawing from the nude model. Prerequisite: Art A-B.

*Year course, beginning either Fall or Spring (2-2)***16A-16B Painting****Jackson**

Semester I: Composition of still life and flower forms in water color and oil. Semester II: Landscape and more advanced composition in water color and oil. Prerequisite: Art A-B.

*Year course, beginning either Fall or Spring (3-3)***Art 61A Fine and Industrial Arts****Soulé**

A foundation course which develops unification of work of the elementary grades through activities and experiences. These experiences grow out of environmental activities. They include study and working of clay, lumber and tools, textiles, and cardboard construction. Prerequisite: Art 6A.

*Fall and Spring (2)***61B Elementary Crafts****Hamann**

Problems involving the application of design principles to various fields—pottery, textiles, weaving, metal work, wood-carving, and book-binding. Prerequisite: Art 6A.

Fall and Spring (2)

UPPER DIVISION COURSES

106A-106B Printmaking**Houser**

Study of print crafts which includes the making of linoleum blocks, wood engravings, etchings and lithographs. Prerequisites: Art A, B, 6A.

*Year course (2-2)***106C Illustration****Houser**

Same as 106A-B except that printmaking is applied to problems of book illustration. Prerequisites: Art A, B, 6A.

Spring (2) (Offered in 1942-43 and alternate years)

ASTRONOMY

112A-112B Organization **Houser**
Imaginative organization of space by means of color, dark and light, perspective, and textures of various materials. Prerequisites: Art A-B, 6A-6B, and if possible 15A-15B or 106A.

Year course (3-3)

115A-115B Life Drawing and Painting **Jackson**
Drawing and painting from nude and costume models.

Year course, beginning either Fall or Spring (2-2)

115C-115D Advanced Life **Jackson**
Painting from nude and costume models and advanced composition in oil. Portraiture. Prerequisite: Art 115A-115B.

Year course, beginning either Fall or Spring (2-2)

116A-116B Advanced Painting **Jackson**
Painting in water color and oils from still life and landscape, stressing composition and technique. Prerequisite: Art 16A-16B.

Year course, beginning either Fall or Spring (3-3)

152A Stage Design **Patterson**
See Art 52A.

152B Stage Costume **Patterson**
Costume studied in relation to drama, opera and dance. Original designs for mood and character. Practical problems in designing costumes and accessories for college productions. Prerequisites: Art 6A, 52A or 152A.

Fall (2)

195 Home Decoration **Patterson**
Lectures and designing in class, trips to art galleries, stores, factories and homes, studying how to recognize and choose the best in furniture, rugs, wall coverings, textiles and pottery as to design, color and materials. Actual experience in designing and arranging furnishings in homes and offices. Working with local stores and architects. Arrangement of flowers and objects for different types of rooms and occasions. Prerequisites: Art A, 6A.

Spring (2)

ASTRONOMY

Lower division preparation in Astronomy desirable for advanced work: Astronomy 1, 2, 3, and 9; Mathematics 3A-3B, 4A-4B; Physics 1A-1B and 1C-1D; a reading knowledge of French and German desirable.

LOWER DIVISION COURSES

1 Descriptive Astronomy **C. E. Smith**
A cultural course planned to develop an appreciation of astronomy with special emphasis on the solar system. Only calculations of an elementary nature are used. Especial attention given to the methods and instruments by means of which astronomical knowledge has been gained. A six-inch John Byrne refractor and an eight-inch reflecting telescope are available for observation. Prerequisites: Elementary algebra and plane geometry.

Fall and Spring (3)

2 Modern Astronomy

C. E. Smith

A study of sidereal astronomy and astrophysics in the light of modern research, especially photographic and spectrographic. Prerequisite: Astronomy 1 and a knowledge of physics or permission of the instructor.

Note the designation of this course has been changed from 11 to 2.

Spring (3)

3 Surveyor's Course in Practical Astronomy

C. E. Smith

The principles of spherical astronomy adapted to the needs of engineering students. Computation and observation. Prerequisites: Surveying 1A or permission of the instructor. Astronomy 1 and 9 desirable.

Spring (2) (Offered in 1941-42 and alternate years)

9 Practice in Observing

C. E. Smith

A laboratory course designed particularly to go along with and to supplement Astronomy 1. The course will include constellation study, use of astronomical coordinates, elementary methods of determining time and latitude, and descriptive observations of celestial objects with the six-inch telescope. Prerequisite: Astronomy 1 or registration in Astronomy 1 or permission of the instructor.

Fall and Spring (1)

12 Elementary Navigation

C. E. Smith

A study of compass corrections, drift problems, time, line of position, use of celestial coordinates, Bowditch Tables, etc. A few class hours at the close of the term are devoted to the use of tables such as Ageton, Dreisonstok and H. O. 214 for the solution of astronomical triangle. Offered if demand is sufficient. Prerequisite: Astronomy 1 or permission of instructor.

Spring (2)

L40 Elementary Astronomy

C. E. Smith, Watson

A survey course planned to acquaint the student with the more important facts pertaining to both the solar system and to the stars. The first part of the course is devoted to the study of the earth as an astronomical body and to the other planets. The latter part is devoted to a study of the sun and stars. *Open only to students enrolled in a two-year curriculum.*

Fall and Spring (3)

UPPER DIVISION COURSES

100 Special Problems

C. E. Smith

Admission by consent of instructor. Credit and hours to be arranged in each case. Open to students who have completed three units in astronomy.

Fall and Spring (1 or 2)

105 Historic Development of Astronomy

C. E. Smith

A study of the more important problems and astronomical concepts in the light of their historical development. Particular attention is given to the biography and contributions of the more important astronomers, such as, Galileo, Kepler, Newton, Herschel, and Bessel.

Spring (3) (Offered in 1942-43 and alternate years)

07 Method of Least Squares and Computing Practices C. E. Smith
 Fundamental principles and processes and applications in the fields of astronomy, physics, and engineering.
Spring (3) (Offered in 1941-42 and alternate years)

BACTERIOLOGY

LOWER DIVISION COURSES

General **Darsie**
 An introduction to bacteriology. Effects of physical and chemical agencies upon bacteria; biochemical activities of bacteria; microscopic examination and cultivation of bacteria; the bacteria of air, water, soil, milk and dairy products, other foods; industrial applications. Introduction to disease-producing bacteria. Required of prenursing students. Reduced credit for students with credit for Bacteriology 6. Two hours of lecture and six hours of laboratory per week. Prerequisite: Chemistry 1A or 2A.
Spring (4)

Survey **Darsie**
 A cultural course for nontechnical students, stressing the practical applications of bacteriology to everyday life. Two hours of lecture per week. No prerequisites. Not open for credit to students who have credit for Bacteriology 1.
Spring (2)

UPPER DIVISION COURSES

01 General **Darsie**
 Lectures and laboratory work of Bacteriology 1 with an additional hour of seminar each week. Open only to upper division students by special arrangement.
Spring (4)

99 Special Study **Darsie**
 Work other than is outlined in the regular courses. Admission only by consent of the instructor with whom the work is to be done. Credit and hours to be arranged in each case. Open to students who have completed at least fifteen units of work in the department (including courses in Bacteriology and Chemistry) with grades of A or B.

BIOLOGY

LOWER DIVISION COURSES

Survey **Darsie**
 A survey of Life Science, stressing the development of modern concepts in the fields of plant and animal science, bacteriology, genetics, and physiology. Emphasis is placed on the relationships of biology to modern life and the application of scientific analysis to every day problems. Three lectures and one hour of demonstration and discussion per week. Not open to students with credit for Biology 10A-10B, Zoology 1A-1B, or Botany 2A-2B.
Fall or Spring (3)

BOTANY

10A-10B General

Lectures: Johnso

Laboratory: Crouch, Johnso

The fundamentals of plant and animal biology, with elementary work in human physiology and heredity. Laboratory work supplements the lectures and includes a study of living and preserved material. Aim of the course to acquaint the student with the basic facts of biology. Two lectures and one three-hour laboratory period per week. Designed for those who do not expect to specialize in zoology or botany; not open for credit to students who have taken Zoology 1A, or Botany 2A. Students who have taken 10A-10B may elect Zoology 1B or Botany 2A, 2B for credit.

Year Course (3-3) Begins in Fall only

L40 Man and His Biological World

Jannoch

A survey of the general field of biology with emphasis on the role of biological science in the welfare of man and his associates, consisting of three lectures and one demonstration period per week. Not open to students who have credit in high school biology, zoology, or botany. *Open only to students enrolled in a two year curriculum.*

Fall and Spring (3)

BOTANY

Lower division preparation for advanced work in botany: Botany 2A, 2B, 4, and Chemistry 1A, 1B, 8. Recommended: German, French, and elementary courses in other biological sciences.

LOWER DIVISION COURSES

2A General

Harvey

Fundamentals of structure and general behavior of seed plants. Two lectures or recitations and six hours of laboratory per week.

Fall (4)

2B General

Harvey

A continuation of 2A treating morphology and relationship of the lower plants and including an introduction to classification of seed plants. Lectures and laboratory as in 2A.

Spring (4)

4 California Plants

Harvey

Classification and ecology of representative orders of wild flowers, trees, and chaparral of the San Diego region, including practice in the use of keys. One lecture and three hours laboratory per week. Occasional Saturday field trips.

Spring (2)

5 Cultivated Trees and Shrubs

Harvey

Recognition of the common cultivated trees and shrubs of the San Diego region. Trips to local parks and private gardens. Three hours per week laboratory or field work. No prerequisite.

Fall (1)

CHEMISTRY

UPPER DIVISION COURSES

1 Cellular Physiology Darsie

study of the vital activities of protoplasm, stressing the various physio-chemical relationships involved. Laboratory study of both plant and animal material will serve as an introduction to the methods of modern experimental biology. Two hours of lecture and six hours of laboratory per week. Prerequisite: One year of Life Science in college and three units of college chemistry. Additional training in chemistry and physics desirable.

All (4) (Offered in 1942-43 and in alternate years)

2 Plant Geography Harvey

lectures and field work on the principles of geographical distribution of plants. Prerequisite: Botany 2A-2B, or 4, or equivalent.

All (2) (Offered in 1941-42 and alternate years)

4 Taxonomy Harvey

identification, classification and distribution of representative orders of flowering plants. One hour of lecture and six hours per week of laboratory and field work. Prerequisites: Botany 2A-2B, or 4.

Spring (3) (Offered in 1941-42 and alternate years)

7 Plant Physiology Darsie

the activities of plants, including food manufacture, absorption, conduction, transpiration, respiration, growth, and movement. Prerequisite: Cellular Physiology or equivalent.

(2) By arrangement

9 Special Study The Staff

work other than is outlined in the above courses. Admission by consent of the instructor with whom the work is to be done. Credit and hours to be arranged in each case. Open only to students who have completed at least fifteen units of Botany with a grade of A or B.

All and Spring (1 or 2)

CHEMISTRY

upper division preparation for the liberal arts major in chemistry: Chemistry 1A-1B with an average grade of C or better, Chemistry 7-8, Physics 2A-2B and 3A-3B or their equivalent, Mathematics 3A-3B or the equivalent, and a reading knowledge of German. Students planning to do graduate work in chemistry or to transfer to another college, and there work for a degree with a major in chemistry, are advised to take Physics 1A-1C-1D and Mathematics 3A-3B-4A-4B in place of the courses listed above.

liberal arts major (upper division): A minimum of twenty-four upper division units in chemistry including Chemistry 105A-105B, 110A-110B and 111A-111B. The choice of related minors and the organization of the course of the major student must follow a definite plan approved by the department.

for requirements for liberal arts major in physical science, see page 126.

CHEMISTRY

LOWER DIVISION COURSES

1A-1B General Chemistry

Robins

The general principles and laws of chemistry, and a description of the elements and their compounds. Two lectures, one quiz and two laboratory periods per week. The laboratory work in the second semester consists of work in qualitative analysis. Prerequisites: At least two years high school mathematics. Recommended: High school chemistry and physics.

Year course (5-5)

2A-2B General Chemistry

Nichol

A general course for those not intending to take advanced courses in chemistry. The work in the first semester stresses inorganic chemistry and fundamental principles; that of the second semester covers an introduction to organic and biochemistry. Emphasis placed on application of chemistry to everyday life. Two lectures and one laboratory period per week. Required of prenursing students and recommended for those desiring chemistry as part of a liberal education.

Year course (3-3)

7-8 Organic Chemistry

Robins

A general consideration of the carbon compounds (both aliphatic and aromatic) and their derivatives; their synthesis, constitution, and properties, and the principles involved. Two lectures and one laboratory period per week first semester; one lecture and two laboratory periods per week second semester. Prerequisite: Chemistry 1A-1B.

Year course (3-3)

UPPER DIVISION COURSES

105A Quantitative Analysis

Messner

The principles of gravimetric and volumetric analysis. Discussions of the theory of quantitative analysis and practice in the standardization of reagents and analysis of samples. One lecture and two laboratory periods per week. Prerequisite: Chemistry 1A-1B.

Fall (3)

105B Advanced Quantitative Analysis

Messner

Advanced work in the theory and practice of volumetric, gravimetric and electro-analysis. One lecture and two laboratory periods per week. Prerequisite: Chemistry 105A.

Spring (3)

110A-110B Physical Chemistry

Nichol

Lectures and problems on theoretical principles of chemistry. Prerequisites: Physics 1A-1B or 2A-2B and Chemistry 105A which may be taken concurrently. With the approval of the instructor, advanced courses in physics may be substituted for Chemistry 105A.

Year course (3-3)

111A-111B Physical Chemistry—Laboratory

Nichol

Physico-chemical problems and measurements. Two laboratory periods per week. Prerequisites: Credit or registration in Chemistry 110A-110B.

Year course (2-2)

112 Industrial Analysis

Robinson

A laboratory course including the analysis of fuels, petroleum products, water, and gas. Prerequisite: Chemistry 105A which may be taken concurrently.

Spring (2) (Offered in 1941-42 and alternate years)

114 Biochemistry

Messner

An introductory lecture course covering the carbohydrates, proteins, fats and the changes which they undergo in digestion and metabolism as well as a consideration of the vitamins and other accessory food factors and their importance to the body. A brief discussion of the chemistry of plant life. Prerequisites: Credit or registration in Chemistry 110A-110B.

Fall (3) (Offered in 1941-42 and alternate years)

118 Colloid Chemistry

Messner

A lecture course covering the theoretical principles of colloid chemistry and the preparation, properties and practical applications of colloids. Prerequisite: Chemistry 110A-110B.

Fall (2) (Offered in 1942-43 and alternate years)

123-124 Organic Preparations

Robinson

A laboratory course illustrating some of the more important synthetic methods of organic chemistry. Laboratory and conferences. Prerequisite: Chemistry 7-8. A reading knowledge of German recommended.

Beginning either Fall or Spring (1 to 5-1 to 5)

125 History of Chemistry

Robinson

Development of the science of chemistry from the time of the alchemists to the present. Conducted on the reading, report, and seminar basis. Prerequisite: Chemistry 7, 8.

Fall (2) (Offered in 1941-42 and alternate years)

127 Advanced Inorganic Chemistry

Robinson

A detailed study of the Periodic Table. Discussion of complex inorganic compounds and oxidation-reduction potentials. Prerequisite: Chemistry 1A-1B and upper division standing.

Fall (2) (Offered in 1942-43 and alternate years)

144 Industrial Chemistry

Robinson

Industrial stoichiometry, flow sheets, flow of fluids and unit processes. Lectures, problems, and reports. Prerequisites: Chemistry 1A-1B, Physics 1A-1B or 2A-2B.

Spring (3) (Offered in 1941-42 and alternate years)

99 Special Topics

Instructors of the Department

Supervised individual work in specialized branches of chemistry such as colloid chemistry, biochemistry, applications of the phase rule, etc. Admission only by the consent of the instructor. Hours and credit to be arranged in each case. Only open to upper division students who have shown their ability to do A or B work in Chemistry.

Fall and Spring (1-3)

ECONOMICS AND COMMERCE

COMMERCE

(See Economics and Commerce, below)

ECONOMICS AND COMMERCE

The department provides an opportunity for the student to choose between a major in economics and a major in commerce in satisfying the requirements for the Bachelor of Arts degree.

Economics *Lower division preparation for the liberal arts major in economics and for the junior certificate: Economics 1A-1B and at least one of the following: Political Science 1A-1B or 71A-71B; History 4A-4B, 8A-8B; Psychology 1A and 1B; Sociology 50A-50B; Anthropology 50A-50B. Recommended: Economics 14A-14B, 18A-18B.*

Liberal arts major in economics, 24 upper division units required as follows: Economics 100, 102 or 111, 140 and 199, with 6 additional units selected from Economics 102 or 111, 107, 125, 131, 133, 135, 150, 171 and 194. Electives: Six additional upper division units in economics. Political Science 143A-143B may be substituted for elective units in economics.

Commerce *Candidates for a teaching credential in business education should refer to the statement "Admission to Teacher Training Curricula" on page 28 and to the curriculum for the A.B. degree with a special credential in Business Education on pages 38 to 39.*

Lower division preparation for the liberal arts major in commerce and for the junior certificate: Economics 1A-1B, 14A-14B (6 units), 18A-18B; English 1B, 2 or 3; Geography 10A-10B, Mathematics D, or equivalent, and Economics 2; History 4A-4B or 8A-8B or Political Science 1A-1B or 71A-71B. Recommended for concentration in insurance: Political Science 71A-71B; Merchandising L26A.

Liberal arts major in commerce, 24 upper division units required as follows: Economics 111, 121, 149, 199 with 12 units additional chosen in one of the following groups:

A. Accounting: Economics 160A-160B, 161, 162.

B. Banking and Finance: Economics 133, 135 and 6 units selected from Economics 107, 131, 134, 137.

C. Insurance: Economics 125, 127, 133, 134. Recommended: Economics 131, 135.

D. Business Administration: 6 units selected from Economics 123, 137, 142, 150. Electives: 6 additional upper division units in economics.

LOWER DIVISION COURSES

1A-1B Principles of Economics

Cameron, Jordan

The basic principles of economics: utility, wealth, value, price; economic production, distribution, and consumption; rent, interest, wages, and profit; competition, monopoly, and large scale production; property, economic waste, and luxury; money and banking, international trade and tariffs; transportation corporations, labor problems, socialism, taxation,

c. Aims of the course: (1) to provide a foundation for further intensive study of economic problems; (2) to furnish to those who expect to follow business pursuits a broad foundation in economic principles; and (3) to introduce future citizens to political and economic problems of our time. Lectures, discussions, quizzes, and collateral reading. Not open to entering freshmen except by special arrangement.

Year course (3-3)

Mathematics of Finance

Wright

Interest and annuities; amortization; sinking funds; valuation of bonds; depreciation; mathematics of building and loan associations; mathematics of life insurance. Prerequisites: Two years of algebra in high school, or equivalents.

Spring (3)

10A-L10B Business Economics

Watenpaugh

A basic course in the general principles of business economics and the application of these principles to current problems of man's economic life. A coordinated description of economic conditions, circumstances and forces which are of general significance throughout the business world. The development of theory as an interpretation of and guide to practice. Emphasis placed on actual business and financial operations and matters of everyday business experience which may serve as guides for individual conduct and the development of social policy. Human wants and their satisfaction; organization and purpose of business; risks and insurance; how prices are determined; money, credit and banking; taxation; principles of consumption; government and business; wealth, value, capital, rent, interest profits; etc. Not open to freshmen.

Year course (3-3)

14A-14B Accounting

Wright

Knowledge of bookkeeping not required and not advantageous. The balance sheet; profit and loss statement; various types of books of original entry; the opening, conducting, and closing of books for different kinds of businesses; organizations, reorganizations, dissolutions, and consolidations, etc., keeping in view the best modern accounting practice. Five hours lecture and laboratory.

Year course (3-3)

15A-L15B Elementary Accounting

Watenpaugh

An introductory course in the fundamental principles of accounting; recording business transactions; opening and closing books of different kinds of business in accordance with modern accounting practice; accounting theory combined with actual practice. Balance sheet; profit and loss statements; accounts; book of entry, etc. Planned for students entering accounting work who must confine their preparation to one or two years.

Year course (3-3)

16A-L16B Secretarial Accounting

Watenpaugh

A course in secretarial accounting covering the fundamental principles of accounting and the application of these principles to the accounting work required by one employed in a secretarial capacity.

Year course (3-3)

18A-18B Commercial Law

Wurfe

The leading and fundamental principles of business law. Simple case showing the actual application of the principles to commercial and business transactions, rather than the development of those principles. The subjects covered: contracts, sales, agency, partnerships, corporations, real property, negotiable instruments, insurance, and wills, with a brief study of evidence.

Year course (3-3)

L65A-L65B Record Keeping

Watenpaugh

An advanced course in the application of accounting theory and principles to accounting practice; the technical arrangement of accounting forms, records and reports found in business; advanced theory. Opportunity afforded students through the use of practice sets, etc. to secure practice in applying principles to actual work done in business. Prerequisite: Accounting 15A and B or 16A and B or Economics 14A and B

Year course (3-3)

UPPER DIVISION COURSES

100 Modern Economic Thought

Jordan

Review of schools of economic thought in the light of recent economic theory with special reference to value and distribution. Special attention is given to the marginal utility theory of value, to the contributions of the institutional economists, and to the work of statisticians in the development of economic theory. Prerequisite: Economics 1A-1B.

Fall (3)

102 Social Control and Economic Planning

A. G. Peterson

A study of principles, plans and movements for social and economic control including consideration of anarchism, individualism and liberalism, collectivism, socialism, communism, fascism, and the New Deal.

Spring (3) (Offered in 1941-42 and alternate years)

107 Credit and Credit Institutions

Jordan

A study of the economics of credit, its cost, and the agencies supplying credit. Special attention is given to the growth of government credit agencies and their place in modern economic society. Prerequisite: Economics 1A-1B. Recommended: Economics 100.

Spring (3)

111 Economic History of the United States

Wright

A comprehensive survey of American economic development and of national legislation in the field of industry.

Fall (3)

121 Business Administration

A. G. Peterson

Problems of business administration as an interrelated whole and as an indication of lines of study which may lead to the solution of those problems. A discussion of the problems of the business administrator with particular reference to the character of the problems involved and to the control policies and devices of the manager. Questions, problems, and case studies. Prerequisite: Economics 1A-1B.

Fall (3)

123 Principles of Marketing

Jordan

A survey of the fundamental principles and methods of marketing. Intended as a basic training for students interested in the economics of advertising, sales management, retailing, and foreign trade, as well as for those wishing a knowledge of the existing market structure. Subjects covered include price policies, distribution methods, finance, risk, market information, and governmental regulation. Prerequisite: Economics 1A-1B.

Fall (3) (Offered in 1941-42 and alternate years)

125 General Insurance—Principles and Practice

Jordan

Economic theory of risk, its extent and importance to both the individual and business; transfer of risk; distribution and prevention of loss; types of insurance carriers; problems of rate making; the insurance contract; coverages; special forms of life, fire, marine and casualty insurance; state supervision.

Fall (3) (Offered in 1941-42 and alternate years)

127 Life Insurance—Principles and Practice

Jordan

A study of social and individual values involved in the institution of life insurance. The student is then directed to the types of life insurance companies and associations, home office and agency organization, types of contracts, surrender value, policy loans and extended insurance, surplus and dividend policies, reserves, group, industrial and social insurance, and state supervision.

Fall (3) (Offered in 1942-43 and alternate years)

128 Real Estate

Cameron

Real estate in all its aspects: property rights, transfer of title, valuation, finance, selling, property management, taxation, insurance, city planning, and the like, with special emphasis upon problems as they exist in San Diego.

Spring (3) (Not offered in 1941-42)

L129 Real Estate Law and Practice Barnes, Conklin, Merrill, Rezder
California law and practice relating to the ownership and transfer of real property, including deeds, contracts, mortgages, taxes, escrows, title insurance, etc.

Spring (3) (Offered in 1942-43 and alternate years)

131 Public Finance and Taxation

A. G. Peterson

Principles and practice of taxation, public expenditures, and financial administration. Economic effects of public expenditure, indebtedness, and taxation. Prerequisite: Economics 1A-1B.

Spring (3) (Offered in 1942-43 and alternate years)

133 Corporation Finance

Cameron

The corporate form of organization, instruments of long-time finance, methods of raising capital, efficient financial management, the financing of reorganizations, and governmental control. Prerequisite: Economics 1A-1B.

Fall (3)

134 Investments

Cameron

Investment principles and practices with emphasis upon problems of the small investor, such as tests of a good investment, sources of information, types of stocks and bonds, mechanics of purchase and sale, investment trusts, real estate mortgages, and the like.

Spring (3)

135 Money and Banking

Cameron

The elements of monetary theory. History and principles of banking with special reference to the banking system of the United States. Prerequisite: Economics 1A-1B.

Spring (3)

137 Credits and Collections

Cameron

The credit man and his work, including the instruments with which he works, sources of credit information, the technique of his department, collection methods, legislation for the protection of debtor and creditor, and credit insurance.

Fall (3) (Offered in 1942-43 and alternate years)

140 Statistical Methods

Jordan

The nature and uses of statistical method in the social sciences. Practice in tabular and graphic presentation of data; analysis of frequency and time series; index number construction and study of correlation techniques. Prerequisite: Mathematics A and D, or equivalent.

Fall and Spring (3)

142 Business Fluctuations and Business Forecasting

Jordan

Fundamental factors in business cycles are analyzed and cycle theories are examined. Study of current business conditions begins early in the course and develops into practical application of forecasting methods to both business and other data. Prerequisite: Economics 140.

Spring (3) (Offered in 1942-43 and alternate years)

150 Labor Problems and Industrial Relations

A. G. Peterson

A discussion of employment, hours, wages, working conditions, insurance, pensions, workmen's compensation, labor organizations, and labor legislation. Organization of personnel functions; selective devices, training and safety programs, compensation plans, morale.

Fall (4) (Offered in 1941-42 and alternate years)

160A-160B Advanced Accounting

Wright

An intensive study of the corporation, its accounting and financial problems; a thorough study of the balance sheet; depreciation; factory accounting, etc. Under practical accounting an endeavor is made to design, construct, and operate sets of books to meet the needs of different conditions and kinds of businesses. Six hours lecture and laboratory. Prerequisite: Economics 14A-14B.

Year course (3-3) (Offered in 1942-43 and alternate years)

161 Cost Accounting

Wright

Principles and methods of cost accounting in the mercantile establishment and in the factory. A study of bookkeeping procedure, the forms used, and their application to practical problems. Prerequisite: Economics 14A-14B.

Fall (3) (Offered in 1941-42 and alternate years)

162 Accounting Systems

Wright

The accounting systems used in various types of business and financial concerns. Some practice in devising and installing systems. Prerequisite: Economics 14A-14B.

Spring (3) (Offered in 1941-42 and alternate years)

164 Income Tax Procedure

Wright

A consideration of the problems arising from the Federal income tax. The problems are approached from the point of view of the taxpayer who desires to determine the exact application of the law to the interests he represents as well as from the accounting point of view. No knowledge of accounting procedure is necessary.

Fall (3) (Offered in 1941-42 and alternate years)

165A-165B Auditing

Wright

The fundamental principles of accepted procedures of auditing and related types of accounting engagements.

Year course (3-3) (Offered in 1942-43 and alternate years)

166 Honors Course

The Staff

See page 21.

Fall (3) or Spring (3)

167 Governmental Accounting

Wright

A comparative study of accounting systems used by municipalities, counties, and the state of California; detailed comparisons with commercial practice; procedures in handling budget accounts, appropriations, and encumbrances; subsidiary records; cost records; internal checks; auditing.

Spring (3) (Offered in 1941-42 and alternate years)

171 Transportation

Cameron

The development of railway transportation; railroad financing; rates and rate making; governmental regulation; government operation of railroads during the war; recent development of motor and air transportation; current problems in public utilities. Prerequisite: Economics 1A-1B.

Spring (3) (Offered in 1941-42 and alternate years)

195 International Economic Relations

A. G. Peterson

A brief treatment of certain geographical, sociological, and legal phases of international relations followed by a study of the commercial and industrial basis of world economy touching upon a number of special problems involved. An introductory study of materials covering the processes, principles, and policies of international trade. The course concerns itself primarily with the economic basis of international relations, but political

EDUCATION

aspects are almost constantly taken into account in recognition of the fact that international relations are frequently political in form but economic in content.

Spring (3) (Offered in 1941-42 and alternate years)

198 Investigation and Report

A. G. Peterson

Designed to stimulate independent study and investigation; to furnish guidance in the collection, organization, and presentation of factual material; to improve the technique of term reports.

Fall and Spring (1-1)

199A-199B. Special Study

The Staff

Designed exclusively for seniors with a major in economics or commerce.

Fall (1), Spring (2)

EDUCATION

UPPER DIVISION COURSES

L100A-B Methods and Materials of Instruction

R. C. Perry, Siemens, and major subject instructors

A year course required of all candidates in their junior year for the junior high and all special secondary credentials. Candidates for a combination of either a junior high or a special secondary credential with an elementary credential may substitute the work of the elementary practicum for the first half of this course, but not vice versa.

The first half of the course deals with general methods of instruction and the organization and functions of the secondary school curriculum; the second half deals with specific methods used in the field of the teaching major or minor and with directed observation of teaching.

Subject sections in 100B are offered in the following semesters:

Fall semester: Music (1942 and alternate years), Social Studies, Junior Business Training, Stenography, Speech Arts, Mathematics, Physical Education (men and women), and science.

Spring semester: English, Social Studies, Art, Science, Romance Languages (1941 and alternate years), Bookkeeping, Typewriting, Physical Education (men and women).

Students meet twice a week with their major subject instructors, once a week in a combined class with an education instructor.

Fall and Spring (3-3)

102A-B The Psychological Foundations of Education

Deputy

A year course required of all teacher training candidates in their junior year. A basic course required in the curriculum preparing for the general secondary credential. The first half of the course deals with elementary statistics and the use of tests and other measuring devices; the second half deals with the problems of child growth and development and education psychology.

Fall and Spring (6)

.S109 Educational Administration and Supervision

survey of the systems of organization, classification, and promotion of pupils, and such problems as finance, the teaching staff, building standards, extra-curricular activities, etc. Prerequisites: Graduation from college with a teaching credential or two or more years of teaching experience.
summer (3)

.S110 Educational Organization and Supervision

types of supervision and methods of evaluating and improving teaching. Prerequisites: Graduation from college with a teaching credential or two or more years of teaching experience.
summer (3)

.S111 English in the Junior High School (See Education 100B)

objectives of literature and language teaching in the junior high school; criteria for selection of material; technique of classroom procedure; observation in the city schools. Prerequisite: The satisfaction of the lower division requirements in English for the teaching major in English.
summer (3)

.S114 Social Science in the Junior High School (See Education 100B)

The teaching of some of the elementary facts and principles of a "general" social science suited to the experience and development of the junior high school pupil, through the medium of such social studies in the junior high school curriculum as history, geography, and civics. Methods of developing a genuine and continuing interest in social and civic problems through observation and reading, discussed and illustrated. Special stress on evaluating historical and geographical material for educative purposes on this level. Prerequisites: Six units of geography and six units of history.
summer (3)

15A-B The Principles and Functions of Education

Ault, R. C. Perry, Siemens

year course restricted to students with senior standing or the equivalent. Required of all junior high school candidates. The second half of the course is required of all special secondary credential candidates and the first half is required of all elementary credential candidates.

The first half of the course deals with the historical backgrounds and underlying philosophies upon which the modern public school system has been established; the last half deals with the principles and sociological factors functioning in the modern secondary school.

Fall and Spring (4-4)

.S116 Practice Teaching

R. C. Perry and Supervisors

systematic observation, participation and teaching under supervision in the campus elementary school, the affiliated city elementary school, the Woodrow Wilson Junior High School, and the Herbert Hoover Senior High School. All students enrolled in this course are automatically enrolled in a section meeting bi-weekly throughout the semester as announced in the time schedule.

The general plan is for elementary school credential candidates to take in addition to the education practicums, a half-day of teaching daily in the campus elementary school or two and one-half hours daily in one of the affiliated city elementary schools throughout one semester; junior high school and special secondary school credential candidates will be guided by their adviser relative to the distribution of their practice teaching. For those seeking a combination of credentials, the requirements for each teaching level must be satisfied. Further information regarding this requirement should be requested of the Dean of Education when the student first registers for practice teaching.

Thirty clock hours of practice teaching will usually carry one unit of credit in the course, but the final amount of credit allowed will depend upon the character and quality of the teaching done by the student. Practice teaching requirements may be reduced for those who furnish evidence of successful public school experience.

The maximum amount of credit allowed for this course is twelve units.

The universities usually reduce the amount of practice teaching credit they will allow to four units. Students planning to transfer to such institutions should be prepared to meet this reduction with an equal number of acceptable units in other courses.

No grade below a *C* is acceptable for credit in this course.

Prerequisites: Completion of 75 units of college work; admission to teacher training; a *C* average in all college work and in the work of the preceding semester; three units of work in psychology. No credit will be given unless the student registers for this course in the office of the Dean of Education.

L117 Music in the Elementary School

Arnold

Main objectives of music teaching in the public elementary schools. Study of the child voice. Organization of song material by grades. Procedure in presenting rote songs, ear training, elementary notation, music reading, and part singing. Conducting. Not open to students taking the elementary credential, nor to freshmen. Prerequisite: Music 1A, or the equivalent.

Fall and Spring (2)

L119 Art in the Elementary School

Arnold

Discussion of the elements and principles of art and their place in the art expression and appreciation of the elementary school child. Lectures illustrated with examples of children's work and opportunity given for experience with mediums used in elementary school problems. Not open to students taking the elementary credential. Prerequisite: Art 6A.

Fall and Spring (2)

L127 Music in the Secondary School (See Education 100B)

L. D. Smith

Main objectives of music teaching in the public secondary schools. Organization of the chorus and glee clubs, voice testing, seating, a survey of song materials available. Organization of courses in applied music, harmony, history and appreciation.

Fall (2) (Offered in 1941-42 and alternate years)

LS130 Educational Psychology

Man's equipment for learning and the learning process. Consideration given to human behavior which is fundamental to learning. The study of learning includes such topics as laws of learning, improvements in learning, remembering and forgetting, fatigue in learning, and the transfer of training. Prerequisite: Psychology 1A.

Summer (3)

LS140 Elementary Educational Statistics

An introductory study of measures of central tendency, of variability, and of relationship which are commonly used in connection with educational work. Laboratory training in statistical method and opportunity to obtain practice in the use of calculating machines and other aids to computation. Data for statistical research taken from typical school situations. Only 2 units allowed students who have taken Economics 140.

Summer (3)

LS142 Educational Sociology

A consideration of school practices in light of social needs; interrelationships of schools and other social agencies; and trends in cooperative activities among community organizations. Selected individual study projects to make personal contacts with various types of public and private social institutions and with some current social movements. Prerequisite: Upper division standing.

Summer (3)

L145 Organization and Administration of Music Education

L. D. Smith

Theory of the general principles of music administration; correlation of music with the various subjects in the public schools; music tests; creative work.

Fall (2) (Offered in 1942-43 and alternate years)

L147 Education Practicum

Bacon, E. Hammack, I. Hammack, Hunt, Madden, Nordahl, Pfaff, Redit

This course and Education 148 are required of all students who expect to receive a credential which will qualify them to teach in the elementary school. Students should take the course during the next semester after admission to Teacher Training, which is usually the first semester of the junior year. Registration is strictly limited to small groups.

Education Practicum is a unified course which deals with the interpretation and intelligent application of theory and practice in elementary education. The child and accumulated knowledge are studied as one affects the other. The psychology of learning is interpreted while the college student is immediately associated with the experiencing of children. For two or three hours each day classes are held in which the psychology and philosophy of education are studied and analyzed as systems of knowledge and concurrently interpreted in reference to the actual teaching participation to which the student is assigned for one hour daily. The course includes the material commonly taught in many

colleges under the titles of educational psychology, principles of learning, mental hygiene, special methods courses in reading, arithmetic, English, art, music, speech, etc.

The course is taught by college instructors who are in direct contact with the Campus Elementary School.

Fall and Spring (12)

L148 Education Practicum

Bacon, Corbett, Hunt, Lucio, Madden, K. Post, B. Stone

The course is a continuation of Education 147. An extended analysis is made of the special fields and applications are made to teaching participation with groups of older children in the elementary school. Prerequisite: Education 147.

Fall and Spring (12)

Education 156A-B-C-D Principles and Problems in Guidance

Dotson, Mendenhall, C. E. Peterson

A noncredit course covering four semesters of work which will be available to members of the Student Counselor's group only. Designed to provide an orientation toward the principles and literature of guidance, and to prepare the student to meet the problems which he must face as a counselor. Meetings at least one hour a week throughout each semester. Approximately two hours of outside reading and study required each week.

Fall and Spring (0-0)

L160 Commercial Education (See Education 100B)

Wright

Aims, objectives and procedures in commercial education. A study of curricula, together with a consideration of the content of commercial subjects; tests applicable to commercial teaching.

Fall (2)

L161 Junior Business Training (See Education 100B)

Wright

The methods and content of the course in the elements of business training as offered in the junior high school. Not open for credit for those who have taken Secretarial Training 3A.

Spring (2)

L163 Stenography (See Education 100B)

Amsden

Methods and content of courses in stenography. Prerequisites: Secretarial Training 5A-5B, 6A.

Fall (2)

L164 Bookkeeping (See Education 100B)

Wright

Various types of bookkeeping method, with considerable study of content.

Fall (2)

L165 Typewriting (See Education 100B)

Amsden

Methods in typewriting and office procedure. Prerequisite: Secretarial Training 1A.

Spring (2)

LE169 Graphic Methods in Education**R. C. Perry**

Fundamentals of pictorial representation as used by the teacher in presenting classroom material, in educational literature, in presenting the schools to the public, and in administrative control. Emphasis will be placed on the construction of charts and graphs for popular consumption. A course particularly valuable to candidates for the administrative credential. No prerequisite although it is desirable that the student have had some teaching experience.

*Spring (2)***LE170 Administration of a Visual Instruction Program** **M. Evans**

The service program of a visual instruction center is studied as a collecting, selecting, organizing and distributing center for classroom illustrative materials; a teacher training and advisory bureau in the technique and correct use of visual aids; a photographic production laboratory for making current and local illustrative materials for the curriculum; a testing division for evaluating visual equipment, standardization and upkeep of same; a center for correlating and integrating the school program with opportunities offered by other community educational institutions and organizations; an advisory department for supervising school film productions and for instructing teachers and students in the art of photography and appreciation of photoplays.

This course is given at the visual education center of the San Diego city schools and the enrollment is limited to students who have made previous arrangements with the head of the Education Department and with the instructor.

*Fall and Spring (2)***L176 Speech Arts in the Secondary School** *(See Education 100B)***Jones**

Organization and conduct of junior high and high school speech activities.

*Fall (2)***L199 Educational Problems****Education Staff****(Dean of Education in charge)**

A course for senior students in residence and enrolled in teacher training who have shown ability to work independently on educational problems. The problem can be chosen only after consultation with a staff member. Admission by consent of the staff. Credit and hours to be arranged.

*Fall and Spring (1-3)***ENGINEERING***(For curriculum in engineering see page 55.)***LOWER DIVISION****1A-1B Plane Surveying****Gleason**

Use and adjustment of surveying instruments, computations and map-making, together with a study of land, topographic, city, and mine surveying. Two instruction periods and one three-hour period for field work and mapping each week. Prerequisites: Trigonometry and Mechanical Drawing, or equivalent, and sophomore standing.

Year course (3-3)

S3 Summer Class in Surveying

Practical field problems in reconnaissance, triangulation, location and topographic surveys. Observations for meridian, time and latitude. Precise work in linear and angular measurements. Development of self-reliance, accuracy, and professional skill on the part of the student. Four weeks course held in the mountains near San Diego. For details regarding location of camp, date of registration, date of opening, and other arrangements, a special announcement of the surveying camp may be secured at the Registrar's Office. Offered if demand is sufficient. Prerequisite: Surveying 1A-1B.

Summer (3)

21 Descriptive Geometry

Wallin

Fundamental principles of descriptive geometry and their application to problems of engineering. Lectures and drafting. Prerequisites: One year of mechanical drawing, and sophomore standing.

Fall (3)

L22 Machine Drawing

Wallin

Design and drawing of simple machine parts with emphasis upon the production of standard drawings. Lectures and drafting. Prerequisite: Engineering 21, Mathematics 3A-3B.

Spring (3)

L23 Materials of Construction

Wallin

Structural properties and adaptability of materials used in engineering. Lectures. Prerequisite: Sophomore standing.

Spring (2)

25 Elements of Electrical Engineering

Wallin

Mathematical and descriptive consideration of electrical circuits and machinery together with a general survey of the electrical industry. Primarily for engineering students other than mechanical or electrical. Lectures. Prerequisites: Mathematics 4A, Physics 1C.

Spring (3)

28 Elements of Heat Power Engineering

Wallin

Fundamental consideration of fuels, combustion, steam, boilers, furnaces, chimneys, steam engines, steam turbines and auxiliaries, internal combustion engines. Lectures. Prerequisites: Mathematics 3B, Physics 1B. Primarily for engineering students other than mechanical or electrical.

Fall (3)

50 C.A.A. Primary Ground School

Clifford E. Smith

The course is divided into three parts. The first part deals with an integrated treatment of an applied theory of flight and aerodynamics, flight and engine instruments, engine and aircraft inspection and maintenance. The second part deals with the general theory of meteorology with practical application to flying. The third part is the study of navigation of aircraft by the systems of pilotage, dead reckoning, and use of radio aids; navigation instruments; map reading; variation; deviation; wind drift.

(4)

ENGLISH

1 C.A.A. Restricted Commercial Ground School

In this course there will be a careful review of navigation and meteorology with some extensions. The main part of the course, however, will be devoted to an extensive study of the principle of the internal combustion engine and its care and maintenance and a careful analysis of aerodynamics and theory of flight, with a thorough study of structure and maintenance of airplanes. Also, one will be expected to learn radio telegraphy.

5)

2 C.A.A. Primary Flight Training

This course includes 35 to 45 hours of actual flying and a considerable number of hours of ground instruction on flight maneuvers and inspection of airplanes.

1)

UPPER DIVISION

25 Elements of Electrical Engineering

Walling

Essentially the same as Engineering 25 with addition of special problem work for advanced students. Prerequisites: Mathematics 4A, Physics 1C. Primarily for students enrolled in the Industrial Physics curriculum.
Spring (3)

28 Elements of Heat Power Engineering

Walling

Essentially the same as Engineering 28 with addition of special problem work for advanced students. Prerequisites: Mathematics 3B, Physics 1B. Primarily for students enrolled in the Industrial Physics curriculum.
Fall (3)

ENGLISH

Lower division preparation for the liberal arts major in English: English B or 1C, and one section of English 2; and six units from 50A, 50B, 2A, 52B, 56A, 56B. Liberal arts major (upper division): 24 units in upper division English to be selected and arranged under supervision of the department. A reading knowledge of German or French.

LOWER DIVISION COURSES

1.1A Beginning Composition

The Staff

The elements of composition, including drill in grammar and usage; exercises in vocabulary building and careful reading; theme writing. Credit in this course is equivalent to passing the English A examination.
Fall and Spring (3)

1.1AA Reading Efficiency and Vocabulary Extension

Trail

Special drill in reading for comprehension; vocabulary building; practice in elementary composition. Systematic, progressive, and intensive training and practice in effective reading and methods of study. This course may be substituted for English L1A.
Fall and Spring (3)

1B Freshman English

The Sta

Composition stressing exposition. Reading from essays of England and America since 1850. Prerequisite: Satisfactory Subject A test or record from another college.

Fall and Spring (3)

1C Freshman Literature

Keene

An introduction to literature significant in European and American culture, with composition. This course may be taken, in connection with either English L1A, L1AA, 1B or 2, to earn six units of credit in Freshman Composition and Reading.

Fall and Spring (3)

2 Sophomore English: Composition and Reading

The analysis of literature, with practice in writing of various types. This course is open to Freshmen who have completed either 1B or 1C. By taking English 1B and 2, the student earns credit for six units of composition. English 2 is taught in various parallel sections, as described below. These alternatives require equal work and give equal credit.

Fall and Spring (3)

2A Sophomore English: Argumentation

Aller

Composition stressing informal argumentation. Reading from contemporary essayists. Prerequisite: One semester of Freshman English. *Not open to students who have credit in English 2C.*

Spring (3)

2B Sophomore English: Biography

Kennedy, Haskell

Composition stressing personal narrative and informal essay. Reading from field of biography and memoirs. Prerequisite: One semester of Freshman English.

Fall and Spring (3)

2C Sophomore English: Periodical Literature Adams, F. L. Johnson

Composition stressing article writing of varied types. Reading from current periodical literature. Prerequisite: One semester of Freshman English. *Not open to students who have credit in English 2A.*

Spring (3)

2D Sophomore English: Linguistics

Allen

An elementary course in English Linguistics designed to make more significant the native language by studying the various linguistic influences upon it. Prerequisite: One semester of Freshman English.

Fall and Spring (3)

2E Sophomore English: Modern Drama

F. L. Johnson

Composition based upon the reading of recent plays and dramatic criticism. Prerequisite: One semester of Freshman English.

Spring (3)

2F Sophomore English: Short Story Writing

Bruner

A practical course in writing, including a study of short story technique and markets, and the writing of complete short stories. Prerequisite: One semester of Freshman English.

Fall and Spring (3)

L8 English in Business

Theory and practice of business correspondence. Business letters as applied salesmanship; problems in writing credit and collection letters, applications for employment, adjustment letters, and sales letters. Prerequisite: English L1A or equivalent, as indicated by Subject A Examination, or record from college. This course is planned for students in Secretarial Training; units obtained in it cannot be used to meet English requirements in other fields.

Fall and Spring (3)

10 Recreational Reading

Dickhaut

Development of personal tastes for leisure-time reading through lectures and oral or written reports. May be taken a second time with new material.

Fall and Spring (1)

L40B Freshman English

The Staff

Literature, mainly contemporary, is read for its thoughts and ideas, especially in relation to human problems and their solution. Practice in writing is continued. Prerequisite: English L1A or 1B. *Open only to students enrolled in a two-year curriculum.*

Fall and Spring (3)

L40C Sophomore English: Biography

The Staff

Composition stressing personal narrative and informal essay. Reading from field of biography and memoirs. Prerequisite: One semester of Freshman English.

Fall and Spring (3)

50A-50B Survey of American Literature

Kennedy

Semester I: A survey of American literature from its beginnings to 1860. Semester II: American literature from 1860 to the present. Lectures, discussions, and reports.

Year course (3-3)

52A-52B Types of Literature

Dickhaut, Trail

Semester I: Introduction to the study of lyrical and narrative poetry; origin and elements of poetry; typical poems. Semester II: Introduction to the study of dramatic poetry and prose, the essay, novel and short story; elements, principles and characteristics; examples.

Year course (3-3)

56A-56B Survey of English Literature

Keeney

The most important masterpieces of English literature from the Anglo-Saxon period through the Victorian age.

Year course (3-3)

ENGLISH

UPPER DIVISION COURSES

101A Modern Continental Fiction

Dickhaut

A survey of leading French, Russian, Scandinavian, Italian, and German novelists and short story writers, from Tolstoy and his associates to the present day.

Spring (3) (Offered in 1942-43 and alternate years)

101B Modern British Fiction

Dickhaut

The novel and short story, especially of the last quarter of a century.

Spring (3) (Offered in 1941-42 and alternate years)

106A, 106B Advanced Composition

Dickhaut

A laboratory course in modern prose writing. Semester I: Artistic narrative, with description. The short story. Semester II: The essay, the magazine article, criticism. Outside readings. Prerequisite: One year of college composition. Either semester may be taken first.

Fall, Spring (3-3) (Offered in 1941-42 and alternate years)

107A, 107B Advanced Composition

Adams

These courses are designed for students who wish to do independent work in composition. The discussions will consider the problems of effective expression as exhibited in the work of the members of the class. Prerequisite: Same as for 106A, 106B. Either semester may be taken first.

Fall, Spring (3-3) (Offered in 1942-43 and alternate years)

110 Recreational Reading

Dickhaut

An advanced course in the group reading of modern drama, poetry and fiction.

Fall and Spring (1)

112 History of the English Language

Allen

An inductive historical approach to basic aspects of the language. The course includes an analysis of English sounds, grammar, and syntax, beginning with Modern English and going back through Early Modern, Middle, and Old English.

Fall (3)

113 American English

Allen

The rise of American English; its peculiarities in pronunciation, grammar, and vocabulary; slang; regional and cultural differences.

Spring (3) (Offered in 1941-42 and alternate years)

115 The English Bible as Literature

Kennedy

A study of the narrative, poetry, and prophecy of the King James version of the Bible. Readings, reports, lectures, and discussions.

Fall (3) (Offered in 1941-42 and alternate years)

116A Non-Dramatic Literature of the English Renaissance

Allen

Major writers from More to Bacon.

Spring (3) (Offered in 1942-43 and alternate years)

116B The Elizabethan Drama

Adams

Emphasis is given to the forerunners and early contemporaries of Shakespeare.

Spring (3) (Offered in 1941-42 and alternate years)

117A-117B Shakespeare

F. L. Johnson

A chronological survey. The first semester gives special emphasis to the histories and comedies; the second, to tragedy and the dramatic romances.

Year course (3-3)

118A Swift and His Contemporaries

Keeney

A study of the literature of the first half of the eighteenth century, with special emphasis on social satire of Swift, Pope, Addison, Steele, Gay and Prior.

Spring (3) (Offered in 1941-42 and alternate years)

118B Age of Johnson

Keeney

A study of Johnson and his circle as representative of their age, together with a study of Burns, Blake, and others as forerunners of the age of Romanticism.

Spring (3) (Offered in 1942-43 and alternate years)

119 The Romantic Poets

Trail

A study of early nineteenth century poetry; the work of Wordsworth, Coleridge, Byron, Shelley, and Keats, in relation to the thought of the revolutionary period.

Fall (3) (Offered in 1941-42 and alternate years)

121 Poetry of the Victorian Period

Trail

A study of Tennyson and Browning and their contemporaries and successors, relating English poetry to nineteenth century life and thought.

Fall (3) (Offered in 1942-43 and alternate years)

126 Nineteenth Century British Prose

Dickhaut

Readings and discussions of romantic and mid-Victorian prose writers, including Coleridge, Hazlitt, Lamb, DeQuincey, Carlyle, Landor, Macaulay, Mill and Thackeray.

Fall (3) (Offered in 1942-43 and alternate years)

127 Modern British Prose

Dickhaut

Late nineteenth and early twentieth century essays of Arnold, Beerbohm, Belloc, Chesterton, Galsworthy, Gosse, Huxley, Inge, Newman, Pater, Ruskin, Shaw, Stevenson, Tomlinson and Wells.

Fall (3) (Offered in 1941-42 and alternate years)

131 Spokesmen of American Ideals, 1830-1860

Adams

Major essayists and poets, with emphasis upon Emerson, Thoreau, and Whitman.

Fall (3) (Offered in 1942-43 and alternate years)

132 The Frontier and American Literature

Kennedy

A survey of the influence of the frontier upon American literature from colonial days to the present. Studies in source materials, biographies and representative writers such as Irving, Cooper, Harte, and Mark Twain.

Spring (3) (Offered in 1941-42 and alternate years)

133 American Fiction

Adams

The outstanding writers of novels and short stories, from Cooper to Norris.

Fall (3) (Offered in 1941-42 and alternate years)

134 Recent American Literature

Kennedy

A survey of American literature since 1900 with emphasis upon contemporary poetry, fiction and drama.

Spring (3) (Offered in 1942-43 and alternate years)

143 The Development of the English Novel

Kennedy

History of the English novel from the beginnings to Hardy. Extensive reading of novels with reports. Lectures and discussion.

Fall (3) (Offered in 1942-43 and alternate years)

151 Medieval Literature

Keeney

The literature of the fourteenth century, especially the verse romances and the poetry of Chaucer.

Fall (3)

152A Survey of Drama: Comedy

Studies in the field of comedy, based on selected readings from the works of Continental, English, and American dramatists. Lectures, discussions, and reports on reading.

Fall (3) (Not offered in 1941-42)

152B Survey of Drama: Tragedy

Procedure as in 152A, with selections taken from the field of tragedy.

Spring (3) (Not offered in 1941-42)

160 Seventeenth Century Literature

Adams

Emphasis is put upon the work of Milton.

Spring (3) (Offered in 1942-43 and alternate years)

166 Honors Course

Keeney and Staff

Special study. Open to members of the Honors Group in English. See page 21.

Fall and Spring (1 to 5-1 to 5)

FOREIGN LANGUAGES

The courses offered in foreign languages are listed below. See pages listed after each subject for a more complete description of the offerings under that designation. French, see below; General Language, page 100; German, page 104; Italian, page 108; and Spanish, page 137.

As a background for advanced work in Romance languages, students are advised to include in their electives as many as possible of the following courses: Geography 118, History 121A, 121B, 145A, 145B, 147. Aesthetics 50 or 150; English 1C, 52A, 52B, 56A, 56B, 101, 116A, 116B, 117, 118A, 118B, 119, 121, 126, 143, 160.

FRENCH

Lower division preparation for the liberal arts major in French: French A-B-C-D; either German A-B or Spanish A-B; History 4A-4B.

Liberal arts major in French: Twenty-four units of upper division work, of which at least eighteen must be in French, and of which a maximum of six may be in related subjects, arranged in consultation with the chairman of the department. At least a C average in upper division major courses.

LOWER DIVISION COURSES

A-B Elementary

Baker, L. P. Brown, Phillips

Intensive study of French grammar and syntax; daily written work discussed in class; class drill in conversational idiom and pronunciation; reading with oral discussion and résumés; dictation; introduction to contemporary prose writers. Credit not given for French A unless followed by French B. Students who have had one year of French in high school should register for French B. Those who have had two years of French in high school should register for French C. No credit given for repetition of high school work.

Year course (5-5)

C-D Intermediate

E. M. Brown, Phillips

Reading and composition; study of standard prose as a basis for class work, collateral reading with résumés and written reports in French; dictation. Individual conferences. Prerequisite: French B or two years of high school French, or its equivalent. Students with three years of high school French may take D with full credit.

Year course (3-3)

SC Scientific

L. P. Brown

Reading taken from the fields of chemistry, physics, medicine, zoology, biology, etc. Outside readings of books and periodicals. Oral and written reports. Prerequisite: French B or equivalent.

Fall (2) (Offered in 1941-42 if registration warrants)

UPPER DIVISION COURSES

101A-101B Conversation and Composition

E. M. Brown

Prerequisite: French D, or its equivalent, with grade of C.

Year course (3-3) (Offered in 1942-43)

GEOGRAPHY

105A-105B Modern French Drama

E. M. Brown

Plays of Musset, Scribe, Augier, Dumas fils, Pailleron, Brieux, Her-
vieu, Maeterlinck, Rostand, and others read and discussed as to subject
matter and technique. Outside reading and reports. Prerequisite:
French D, or its equivalent, with grade of C.

Year course (3-3)

107A-107B Eighteenth Century Literature

L. P. Brown

The works of Montesquieu, Voltaire, Rousseau, the Encyclopédistes, and
others. Prerequisite: French D, or its equivalent, with a grade of C.

Year course (3-3) (Offered in 1944-45)

110A-110B Modern French Novel

E. M. Brown

The French novel from Victor Hugo to the present day, including such
authors as: Hugo, Dumas, Stendhal, Balzac, Flaubert, Loti, Anatole
France, Bourget, Bordeaux, Bazin, Barrès, Romain Rolland, A. Gide,
Marcel Proust, and others. Class and outside reading and reports.
Prerequisite: French D, or its equivalent, with grade of C.

Year course (3-3) (Offered in 1943-44)

111A-111B Seventeenth Century Dramatic Literature

E. M. Brown

Reading in class of plays of Molière, Corneille, and Racine. Outside
readings and lectures on the background of the seventeenth century in
France. Prerequisites: French D or its equivalent, with a grade of C.

Year course (3-3) (Offered in 1942-43)

199 Comprehensive Reading and Survey Course

The Staff

Designed to fill up the gaps in the reading done in courses. Class meet-
ing once a week for guidance, reports, and quizzes. Required of all seniors
majoring in French.

Spring (3)

GENERAL LANGUAGE

LOWER DIVISION COURSE

A Latin and Greek Word Derivation

L. P. Brown

A general and elementary course in philology. A study of Latin and
Greek roots of most frequent occurrence in English, and of the English
words derived from them.

Fall (2)

GEOGRAPHY

*Lower division preparation for the liberal arts major in geography:
Geography 1, 2, 3, and Geology 1A-1B. Recommended: A reading
knowledge of French or German.*

*Liberal arts major (upper division): Twenty-four units of upper division
work in geography or 18 units in geography and six units in related
subjects arranged in consultation with the chairman of the department.*

GEOGRAPHY

LOWER DIVISION COURSES

1 Introduction to Geography: Elements

L. C. Post, Richardson, Storm

The nature of maps; weather and climates of the world; land forms and their associated soils, with reference to their climatic relationships; the seas and their coasts. Open to all students. *This course is classified as a natural science.*

Fall and Spring (3)

2 Introduction to Geography: Natural and Cultural Regions

L. C. Post, Richardson, Storm

The regional differentiation of the world by human activity; areal bases of economy and nationality. Prerequisite: Geography 1.

Fall and Spring (3)

3 Elementary Meteorology

Blake

An elementary study of the earth's atmosphere and changes in it which produce our weather and influence human affairs. Special attention given to local conditions, instruments, and records. Aeronautical meteorology stressed in the fall semester. *This course is classified as a natural science.*

Fall and Spring (3)

4 Map Reading and Map Interpretation

Richardson

Representation of geographic data by means of maps. Interpretation of projections, scales, symbols, land forms, and culture from topographic maps; measurements of cultural data on maps. Prerequisite: Geography 1.

Fall (3)

10A-10B Economic Geography

L. C. Post

Beginning course in economic geography limited to students in commerce and prospective economics majors. Not open to students who have had Geography 1 and 2. *This course may serve as prerequisite to upper division geography courses.*

Fall and Spring (3-3)

L40A-L40B Introduction to Geography

An introductory descriptive course designed to acquaint students with the general features of the various regions of the world. Presents the climatic regions of the world with a description of what man has done with the resources of each. Develops a background for the interpretation of world problems and world happenings. *Open only to students enrolled in a two-year curriculum.*

Year course (3-3)

UPPER DIVISION COURSES

112 Geography of California

Storm

The physiographic regions of California and the cultural landscapes developed by the successive cultural groups. Prerequisite: Geography 1.

Spring (3)

GEOGRAPHY

113 Climatology

Richardson

A survey of the principal classifications of climates of the world; regional characteristics of climate; relations to soils, vegetation, and human activities. Prerequisite: Geography 1.

Spring (3)

116 Geography of Latin America

Richardson

The natural regions of Latin America; their occupational condition and historical evolution. Prerequisite: Geography 1.

Spring (3)

117 Geography of Northern and Eastern Europe

L. C. Post

A study of the cultural development of the countries of northern and eastern Europe in relation to physical background and historical evolution. Prerequisite: Geography 1.

Fall (3)

118 Geography of the Mediterranean Area

L. C. Post

A study of the cultural development of the countries of Southern Europe, Western Asia, and North Africa in relation to physical background and resources. Prerequisite: Geography 1.

Spring (3)

121 Geography of North America

Richardson

The natural regions of North America, their formation and economic and historical development. Prerequisite: Geography 1.

Fall (3)

124 Geography of Asia

Storm

The cultural regions of Asia, their physical environment, and historical development. Prerequisite: Geography 1.

Spring (3)

135 Geography of the San Diego Area

Storm

Directed individual urban and rural field work in the San Diego area; the mapping of a small area and making its geographic interpretations. Prerequisites: Geography 1 and 2.

Fall (3)

141 Economic Geography

Storm

A survey of the raw materials of world trade; their production and distribution as related to major geographic regions of the world. Prerequisite: Geography 1.

Fall (3)

166 Honors Course

L. C. Post

To be arranged after consultation. (See page 21.)

Fall and Spring (Credit to be arranged)

GEOLOGY

Department requirement in Geology for liberal arts major in Physical Science includes in addition to Geology 1A-1B, the completion of: Chemistry 1A-1B, Mathematics 3A; Physics 1A-1B-1C-1D or 2A-2B; 3A-3B. Students preparing for advanced work in Geology may substitute Engineering 21 for Mathematics 3A. Geology 2A may be substituted for Geology 1A in prerequisite requirements provided the additional necessary unit of laboratory work is completed.

French or German, Engineering 1A-1B and Geology 21A-21B are recommended.

LOWER DIVISION COURSES

1A Physical**Brooks**

The composition, origin, and distribution of earth materials, and their modification through mechanical and chemical processes of change. Three lectures and one three-hour laboratory period weekly with related field study during the semester. (Not open to students who have had Geology 2A except for one unit upon the completion of the laboratory section.)

Fall (4)

1B Historical**Brooks**

Theories of earth origin, and the evolutionary history of the earth as traced through rock and fossil records. Consideration of the Paleontologic Sequence. Three lectures and one three-hour laboratory period weekly, with arrangement for field study and conference during the semester. Prerequisite: Geology 1A or equivalent.

Spring (4)

2A General**Brooks**

Similar to Geology 1A but *without* laboratory. Open to all students except physical science majors or those already presenting credit in Geology 1A. Two lectures and one demonstration and discussion hour weekly.

Fall (3)

2B Physiography**Brooks**

A study of the land forms of the United States and their physiographic history as illustrative of universal geologic conditions. Two lectures and one discussion hour weekly. Prerequisite: Geology 1A or 2A.

Spring (3)

21A-21B Mineralogy**Brooks**

Study of the common minerals and rocks. Use of the blowpipe and simple chemical reagents but with emphasis upon sight determination. Prerequisite: Geology 1A and high school chemistry, or equivalents.

Year course (3-3) (Offered in 1941-42 and alternate years)

L40 General Geology**Brooks**

An elementary course dealing with those processes of nature by which the surface of the earth is built up, deformed and torn down. A study of the natural history and occurrence of the common rocks and minerals.

Open only to students enrolled in a two-year curriculum.

Fall and Spring (3)

GERMAN

UPPER DIVISION COURSES

100 Structural Geology

Brooks

The evolution and description of the structural and topographical features of the earth. Faulting, folding, and orogenic forces with practical illustrations from the North American Continent and emphasis on California geologic conditions. Lectures, discussions, and occasional field trips. Prerequisite: Geology 1A-1B.

Fall (3) (Offered in 1942-43 and alternate years)

101 Geologic Problems

Brooks

Reconnaissance of adjacent areas with elementary mapping; or directed reading and group discussion of California Geology; or selection and preparation of materials for the museum collections. Prerequisite: Geology 1A-1B. Registration subject to approval of instructor.

Spring (1-4)

GERMAN

LOWER DIVISION COURSES

A-B Elementary

H. K. Walker

Pronunciation, reading and grammar, with practice in simple conversation, narration and description, both oral and written. Credit not given for German A unless followed by German B. Students who have had one year of German in high school should register for German B. Those who have had two years of German in high school should register for German C. No credit given for repetition of high school work.

Year course (5-5)

C-D Intermediate

H. K. Walker

Reading and composition; study of standard prose as basis for class work; collateral reading with written reports; German conversation, with the texts read as a basis; dictation. Prerequisite: German B or two years of high school German, or its equivalent. Students with credit for three years high school German, or its equivalent, should enter German D, and will receive full credit.

Year course (3-3)

1-2 Elementary

H. K. Walker

A course similar to German A-B, but meeting only three times a week and giving only three units of credit a semester. Intended for those who wish to go more slowly than is possible in a course meeting five times a week. Credit not given for German 1 alone.

Year course (3-3)

SC-SD Scientific

Messner

Full semester. Readings in scientific reader on chemistry, physics, etc.: occasional written reports on scientific subjects read outside of class; sight reading. Spring semester. Readings in special scientific or technical works; weekly written reports required; sight reading. Prerequisite: German SC-German B with a grade of C or two years of high school German; German SD-German SC, German C, with a grade of C, or three years of high school German.

Year course (3-3)

HEALTH AND PHYSICAL EDUCATION

(See *Physical Education*)

HEALTH EDUCATION

LOWER DIVISION

1 Health and Social Adjustment (Men)

C. E. Peterson

An informational course in personal and community hygiene. A study of social hygiene and the hygienic principles of living. Speakers from the County Medical Association on subjects of vital interest enrich the offerings of this course. It is especially desirable that this course be taken in the freshman year.

Fall and Spring (2)

2 Health and Social Adjustment (Women)

B. I. Stone

An informational course, reviewing the principles underlying the improvement of personal health, and the solution of practical problems of young women and prospective homemakers. Lectures by specialists in the various fields serve to enrich the course. Required of all freshmen who are candidates for junior standing or the degree.

Fall and Spring (2)

UPPER DIVISION

151 Health Education (Education 147-148)

B. I. Stone

A course for teacher-training students which includes the study of the diseases, common physical defects, and health indices of school children; the detection and control of communicable diseases which may appear in the school; and the elements which underlie a health education program. Methods of presenting personal and group health to children of different ages. Hygiene of the schoolroom, such as seating, lighting, and ventilation.

Fall and Spring (2)

190 Physiology of Reproduction

Huff

A course consisting of a series of lectures and discussion dealing with normal and abnormal physiology and anatomy of reproduction facts and frauds in sex hygiene, and related topics. Prerequisite: Junior standing. Sophomores only with permission of a dean.

Fall (Women) (1)

Spring (Men) (1)

191 Physiology of Infancy and Childhood

Black

A course for men and women designed to prepare for more intelligent parenthood and consisting of lectures on prenatal preparation and prophylaxis, appraisal of the new born infant, the hospital period, breast feeding, artificial feeding, physical hygiene of infancy. Normal mental growth, normal physical growth, habit training, disease prevention, behavior problems, preventable physical defects, the role of the physician and examination.

Spring (1)

HISTORY

HISTORY

Lower division preparation for the liberal arts major in history: History 4A-4B or 8A-8B, and either Political Science 1A-1B, 71A-71B or Economics 1A-1B. Both history courses are recommended for students planning to major in history. No student shall enroll in more than one lower division history course during a semester.

Upper division requirements for the liberal arts major: At least twenty-four units in upper division courses in history, to be arranged in consultation with the chairman of the department. The student must enroll in History 199 in his senior year. A reading knowledge of at least one foreign language is expected of history majors.

The history minor: from twelve to eighteen units of work in history is recommended. At least half the work should be chosen from upper division courses.

LOWER DIVISION COURSES

4A-4B History of Modern Europe

Lesley

Development of European society and institutions from about 1500 A.D.
Year course (3-3)

8A-8B History of the Americas

Nasatir

A general survey of the history of the western hemisphere from the discovery to the present time. Emphasis on the process of planting European civilization in the new world, the international contest for the continents, the wars for independence, the development of the American republics, and their relations with each other and with the rest of the world. Based on H. E. Bolton's "Syllabus of the History of the Americas."

Year course (3-3)

UPPER DIVISION COURSES

111A-111B Ancient History

Lesley

Semester I—Social, economic, political and cultural development of the Greek states, with emphasis upon the growth of democracy, attempts at federal union and imperialism, Hellenism.

Semester II—Roman history to the beginning of the medieval period, discussions of Roman imperialism and the main constitutional, economic, social and religious developments in the republic and empire.

Year course (3-3) (Offered in 1941-42 and alternate years)

121A-121B Medieval History

Osborn

General survey of European political and cultural development between 500 and 1500 A.D., with special attention to intellectual tendencies and the development of institutions which culminated in the emergence of modern Europe after 1500.

Year course (3-3) (Offered in 1942-43 and alternate years)

143 The French Revolution and Napoleonic Era

Lesley

An intensive study of the revolutionary period in Europe from 1789 to 1815.

Fall (3) (Offered in 1941-42 and alternate years)

144 Europe Since the World War **Lesley**

Developments in Europe from 1919 to the present.
Spring (3) (Offered in 1941-42 and alternate years)

146A-146B Diplomatic History of Europe Since 1648 **Lesley**

A course centering around the four major European treaties, their background, drafting and results. First semester, the Treaties of Westphalia, Utrecht and Vienna. Second semester, the Treaty of Versailles.
Year course (3-3) (Offered in 1942-43 and alternate years)

147 History of Modern France **Lesley**

Intensive survey of the political and social development of France under the Third Republic, 1870 to the present. International and colonial problems of modern France will also be considered.
Fall (3) (Offered in 1942-43 and alternate years)

148 History of Modern Germany **Lesley**

Political, social and economic development of Germany after 1870, the Empire and Republic. German post-war problems, imperialism, and the establishment of the Third Reich will receive special attention.
Spring (3) (Offered in 1942-43 and alternate years)

151A-151B England Since the Norman Conquest **Nasatir**

A survey of political and constitutional development in England since 1066, stressing the transition from medieval to modern England, Tudor despotism, the struggle for self-government under the Stuarts, the rise and development of present-day political and social institutions.
Year course (3-3) (Offered in 1941-42 and alternate years)

156A-156B History of British Expansion **Nasatir**

A study of the growth, development, and break-up of the older overseas empire: the beginnings of the newer empire after 1783; the rise, federation, and imperial relations of the British Commonwealth of Nations; the crown colony system; India under British rule; and British expansion in Africa and the Pacific; development of British mandates.
Year course (3-3) (Offered in 1942-43 and alternate years)

161 South America Since Independence **Nasatir**

The republics of South America. Attention directed to the development of nationality in South America, the struggles for political stability, the exploitation of resources, diplomatic and commercial relations with the United States, and other international problems of South America. Survey of present-day conditions, political, economic, and social.
Spring (3)

163 Mexico and the Caribbean Countries **Nasatir**

Same plan in general as outlined in History 161. Special attention to the relations of the United States with these countries, and to the recent developments in Mexico.
Fall (3)

171A-171B The Rise of the American Nation

Leonard

Semester I. English colonization in North America and the development of colonial institutions and politics. Semester II. The revolutionary movement and the Revolutionary War; the establishment of the government under the Constitution to the close of the War of 1812.

Year course (3-3) (Offered in 1942-43 and alternate years)

173A-173B The Expansion of the United States

Leonard

The rise of Jacksonian Democracy; territorial expansion and the Mexican War; the slavery controversy; the Civil War, and reconstruction; the growth and progress of the United States to the World War.

Year course (3-3) (Offered in 1941-42 and alternate years)

199 Special Courses for Advanced Students

Leonard

Required of all students with a history major in the liberal arts curriculum and to be attended during the senior year. Other students may be admitted with the permission of the instructor.

Spring (2)

ITALIAN

A-B Elementary

Phillips

Intensive study of Italian grammar and syntax, with daily written work; class drill in conversational idiom and pronunciation; reading of works by contemporary writers. Credit not given for Italian A unless followed by Italian B. Students who have had one year of Italian in high school should register for Italian B.

Year course (5-5) (Not offered in 1941-42)

JOURNALISM

For the curriculum in journalism see page 60.

For the profession of journalism introductory work in the fields of literature, history, political science, economics, social economics, the arts, etc., is recommended.

The aim in the specialized courses in journalism is to offer introductory training in the principles and practices of journalistic writing only after a good foundation in correct speaking and writing of English has been laid. Practical training in news reporting and editing for student publications and for the daily press is emphasized.

LOWER DIVISION COURSES

10A-10B Contemporary Press

Swanson

Development of the American newspaper; comparison of American and foreign newspaper practices; display and treatment of news; press associations. Prerequisite to Journalism 51A-51B; open to general enrollment.

Fall and Spring (1-1)

LIBRARY SCIENCE

51A-51B News Gathering and Reporting **Swanson**

Study of news sources and types; practice in news and feature writing; newspaper organization; excursions and special lectures. Course planned for sophomores who have had English 1B, with high school journalism or equivalents. Freshmen admitted by permission of instructor.

Year course (3-3)

L53A-L53B Applied Journalism **Swanson**

Practice and projects in reporting news and feature stories and in other editorial work on *The Aztec*, *El Palenque*, *Del Sudoeste*. Prerequisite of 51A-51B required unless waived by the instructor. One lecture weekly.

Fall and Spring (1 to 3; 1 to 3)

UPPER DIVISION COURSES

151A-151B Newspaper Editing **Swanson**

Study and practice in the editorial, headline writing and editing of newspaper copy; management of publications. Projects in newspaper and magazine work.

Fall and Spring (1-1)

L153A-L153B Advanced Journalism Practice **Swanson**

Editing of student publications and direction of personnel in editorial projects. Prerequisites of 51A-51B and 151A-151B required unless waived by instructor. One lecture weekly.

Fall and Spring (1 to 3; 1 to 3)

Note: Not more than six units in all will be given for journalism practice on student publications.

153C-153D Newspaper Practices **Swanson**

Work on community publications, including county newspapers, under direction of the instructor.

Fall and Spring (2)

199 Special Course for Advanced Students **Swanson**

Open to seniors with sufficient journalistic background to satisfy the instructor.

Spring (2)

LIBRARY SCIENCE

L10 Use of the Library **J. P. Stone**

The chief object is to give a working knowledge of some of the resources of the library which every teacher and student should understand—the decimal classification, the card catalog, periodical indexes, and the most important reference books, together with some instruction in the preparation of bibliographies. The course will be a requirement of those added to the library's staff of student assistants, although it will not prepare the student to become a librarian.

Fall and Spring (1)

MATHEMATICS

LIFE SCIENCE

The courses offered in Life Science are listed below. See pages listed after each subject for a more complete description of the offerings under that designation. Anatomy, see Zoology, page 142; Bacteriology page 75; Biology, page 75; Botany, page 76; Physiology, page 129 and Zoology, page 142.

MATHEMATICS

Lower division preparation for the liberal arts major in mathematics. Mathematics 3A, 3B, 4A, and 8 with an average grade of C or better. Two or more of the following are recommended: Astronomy 1, Economics 1A-1B, 2, Engineering 21, French A-B, German A-B, Physics 1A-1B or 2A-2B, Surveying 1A.

Liberal arts major (upper division): Twenty-four units including at least eighteen in upper division mathematics, the others being selected from Astronomy 107, Chemistry 111A-111B, 144, Physics 105A-105B, 112 and other approved courses. The major should be arranged in consultation with the chairman of the department and completed with a grade of C or better.

LOWER DIVISION COURSES

A, B, C, D, E, F, S Introductory Mathematics The Staff
Courses A, B, C, D, and E are equivalent to those of the same name in high school but with possible variation in emphasis. Course F reviews and adds emphasis to certain topics in algebra and trigonometry, thus enabling the average student to carry analytic geometry and calculus more successfully. Such topics as the binomial theorem, theory of quadratic equations, trigonometric identities, and trigonometric equations are treated much more thoroughly than in the usual high school course. Course S provides a practical introduction to the theory and use of slide rules.

For most students, the time required for Mathematics A or B will be equal to that for a 3-unit course, and for Mathematics D, that for a 5-unit course, the latter beginning with a review of elementary algebra. Courses C and D are offered each semester, others less frequently.

College credit may be earned as indicated below, provided the equivalent courses have not been taken in high school.

- A Elementary Algebra (2)
- B Elementary Geometry (2)
- C Trigonometry (3). Prerequisites: Mathematics A, B, and D.
- D Intermediate Algebra (3). Prerequisites: Mathematics A.
- E Solid Geometry (2). Prerequisites: Mathematics A, B, and D.
- F Introductory College Mathematics (3). Prerequisites: Mathematics A, B, C, and D.
- S Slide Rule (1). Prerequisites: Mathematics A, B, C, and D.

1 Elementary Calculus

Livingston

A general course in calculus and related topics, primarily for students of social and biological sciences who do not have time for the longer courses

in analytic geometry and calculus. Not available to students who have credit for Mathematics 3B. With Mathematics D taken in high school or college, this meets the "Additional Year Course" requirement for the lower division. Prerequisites: Elementary algebra and geometry, and intermediate algebra, with satisfactory grades.

Fall and Spring (3)

3A-3B Analytic Geometry and Calculus Gleason, Walling

Analytic geometry, differential calculus, and an introduction to integral calculus. Credit is allowed for 3A taken alone if desired. Prerequisites: Elementary algebra and geometry, intermediate algebra, and trigonometry, with satisfactory grades. Students whose preparation is deficient either in quality or quantity should enroll in the appropriate course or courses in Introductory Mathematics.

Year course (3-3)

4A-4B Solid Analytic Geometry and Calculus Livingston, Walton

Integration, applications of integration, infinite series; solid analytic geometry, partial differentiation, and multiple integrals. Credit is allowed for 4A alone if desired. Prerequisites: Mathematics 3A-3B. Solid geometry is recommended.

Year course (3-3)

8 College Algebra Gleason

Complex numbers, determinants, and theory of equations. Prerequisites: Trigonometry and either 1 or 3A.

Spring (3)

UPPER DIVISION COURSES

102 Selected Topics in Algebra Livingston

Topics supplementary to those considered in Mathematics 8 and 111. Prerequisites: Mathematics 3A-3B and 8.

Spring (3) (Offered in 1941-42 and alternate years)

104 History of Mathematics Gleason

History of mathematics down to early modern times. Prerequisite: Mathematics 1 or 3A-3B.

Fall (3) (Offered in 1941-42 and alternate years)

105 College Geometry Livingston

An extension of the high school course in plane geometry, dealing largely with triangles and circles. Several new procedures, including inversion, are introduced. Prerequisite: Mathematics 3A.

Fall (3) (Offered in 1942-43 and alternate years)

106 Projective Geometry Livingston

Concurrence of lines, collinearity of points and other properties of figures not altered by projections; construction and study of ellipses, hyperbolas and parabolas by means of projections. Prerequisites: Mathematics 3A.

Fall (3) (Offered in 1941-42 and alternate years)

MERCHANDISING

111 Higher Algebra

Walton

Linear dependence, matrices, quadratic forms, groups. Prerequisites: Mathematics 3A, 3B, 8, 4A, or permission of the instructor.

Fall (3) (Offered in 1942-43 and alternate years)

112 Analytic Projective Geometry

Walton

Projective coordinates, projective properties of loci of second and third order. Prerequisites: Mathematics 3A-3B, 4A-4B, 8, and 106.

Spring (3) (Offered in 1941-42 and alternate years)

117 Intermediate Calculus

Livingston

Essentially the same as Mathematics 4B with additional special work for advanced students. Prerequisites: Mathematics 3A, 3B, and 4A. Credit not allowed for both 4B and 117.

Spring (3)

118 Advanced Calculus

Walton

Selected topics in advanced calculus, exclusive of differential equations. Prerequisite: Mathematics 4A-4B, or 4A with 4B taken concurrently.

Spring (3) (Offered in 1942-43 and alternate years)

119 Differential Equations

Gleason

Ordinary differential equations of first and second order, with applications. Prerequisite: Mathematics 3A, 3B, 4A.

Spring (3) (Offered in 1941-42 and alternate years)

124 Vector Analysis

Worley

Addition, subtraction, multiplication, differentiation, and integration of vectors, with applications in geometry, mechanics, and mathematical physics. Some attention is given to divergence, gradient, and curl. Prerequisites: Mathematics 3A, 3B, 4A and 4B.

Spring (3) (Offered in 1942-43 and alternate years)

140 Probability and Statistics

Gleason

Statistical theory and method from the mathematical standpoint; applications in social and natural science. Prerequisites: Mathematics 4A and 8.

Spring (3) (Probably offered in 1942-43)

199A-199B Special Study

The Staff

An opportunity is offered for advanced work in algebra, geometry and calculus; or for study of vector analysis, or theory of numbers. Adapted to the needs of individual students. Prerequisite: at least six units of upper division courses in mathematics with an average grade of B, or senior standing; and permission of the instructor.

Fall or Spring (1 to 3, each semester)

MERCHANDISING

L20 Consumer Problems

Torbert

Growing importance of consumption as a field for study; consumer incomes in the United States; consumption and business cycles; bases of consumer choice-making; practical problems of buying food, clothing,

shelter, transportation, insurance, etc.; family budgeting; a survey of the methods by which products reach the consumer; market structure and functions seen from the consumer's point of view.

Fall (3)

L24 Principles of Merchandising

Torbert

A study of retail stores, emphasizing the problems of store managers and merchandising executives; store location, organization, personnel, sales promotion, buying and handling of merchandise, inventory, turnover, and control methods. Changing conditions in retailing, problems of profitable operation under present conditions.

Spring (3)

L25 Principles of Salesmanship

Torbert

Theoretical and psychological backgrounds of salesmanship, newer concepts of selling; the selling of ideas and services; steps in a sale: attention, interest, desire, closing; the development of clienteles and of good will; the personal factor in salesmanship.

Fall (3)

L26 Applied Salesmanship

Torbert

Classroom practice in selling; supervised work in cooperating stores, or outside selling; relationships between theory and practice in specific selling situations; incentive methods of payment in selling; the problem of sales managers in reducing selling costs.

Spring (2)

L26A Life Insurance Salesmanship

Torbert

A study of the special problems of life insurance selling, with emphasis on the psychological aspects of insurance selling, and on specific techniques for finding prospects, and for managing the sales interview. A course for students interested in life insurance selling, and for those planning to obtain life underwriter's certification. To be taken in conjunction with L26 (see above) and not available as a separate course.

Spring (26 and 26A, taken together, 3 units)

L27 Principles of Advertising

Torbert

A survey of advertising from the points of view of the business man and the consumer; business principles applied to advertising; basic psychological appeals employed; market analysis as an advertising tool; budgeting of appropriations; selection of mediums; layout, art work, copy; publicity devices; institutional advertising; the function of agencies; radio as a specialized advertising problem.

Spring (3)

MUSIC

Candidates for a teaching credential in music should refer to the statement "Admission to Teacher Training Curricula" on page 28 and to the other degree requirements on that page and those following. The curriculum for the A.B. Degree with a Special Secondary Credential in Music is on page 40.

Lower division preparation for the liberal arts major in music: Music 1B-1C-1D; 4A-4B; 4 units of Applied Music (study of voice or orchestra instrument); and Aesthetics 1A-1B.

Liberal arts major (upper division): twenty-four upper division units. These shall include Music 105A-105B; 106A; 107A; 119; 120; 121A; 4 units of Applied Music; Aesthetics 102A-102B; and 4 units of music activity credit (Music 111, 112, 113, 115, or 126).

At least a C average in upper division music courses is necessary.

It is recommended that students in meeting degree requirements and in choosing free electives, select from the following courses: English 56A-56B; French A-B; German A-B; History 4A-4B; 146A-B; Physics 2A-2B.

LOWER DIVISION COURSES

L1A Music•Reading and Ear Training—Fundamentals of Music**L. D. Smith****D. F. Smith**

The elements of music; scale construction; elementary music theory; drill in music reading both with syllables and with words; ear training; elementary music dictation. Basic course for all general elementary credential students. Music majors receive no credit.

Fall and Spring (2)

1B Music Reading and Ear Training—Musicianship**L. D. Smith**

Tonal and rhythmic dictation; rhythmic writing; sight singing. Basic course for music majors and minors. Text—Smith and Krone: Fundamentals of Musicianship Book I. Prerequisite: Music 1A, or the equivalent. Students not able to pass the departmental entrance examination in the fundamentals of music will take 1A without credit in preparation for this course.

Fall and Spring (2)

1C-1D Advanced Music Reading and Ear Training**L. D. Smith**

Tonal work in minor keys; modal scales; dissonant triads and seventh chords; interval feeling in all chords; rhythmic progression and elementary forms; rhythmic, melodic and harmonic dictation. Prerequisite: Music 1B.

Year course (2-2)

L2A String Instrument Class**Leib**

Beginner's class in violin, viola, 'cello and string bass. Required of all music majors working for a Special Secondary credential unless this orchestral section is the major or minor field.

Fall and Spring (1)

L3A Woodwind Instrument Class.

Leib

Beginner's class in oboe, clarinet, flute and bassoon. Required of all music majors working for a Special Secondary credential unless this orchestral section is the major or minor field.

Fall and Spring (1)

4A-4B Elementary Harmony

Springston

Scale construction, intervals, by-tones and diatonic harmonies. Transposition and original composition in the simpler forms. Text—Alchin: Applied Harmony Vol. I. Prerequisite: Music 1A-1B, or the equivalent, and at least one year of piano study.

Year course (3-3)

L6A Brass Instrument Class

Leib

Beginner's class in trumpet, French horn, baritone, trombone and tuba. Required of all music majors working for a Special Secondary credential unless this orchestral section is the major or minor field.

Fall and Spring (1)

L7A Music Materials for the Elementary School

L. D. Smith

Study of the song material in the state music texts and in the supplementary texts. Appreciation materials applicable to the elementary school. Required course for all general elementary credential students. Prerequisite: Music 1A.

Fall and Spring (3)

8A-8B Keyboard Harmony and Accompanying

Springston

Practical application of the principles of elementary harmony. Prerequisite one year of piano study. At least one year of high school harmony is desirable.

Year course (2-2) (Offered in 1941-42 and alternate years)

11A-B-C-D Women's Glee Club—Treble Clef

L. D. Smith

Entrance upon examination.

Fall and Spring ($\frac{1}{2}$ - $\frac{1}{2}$)

12A-B-C-D Men's Glee Club

Springston

Entrance upon examination.

Fall and Spring ($\frac{1}{2}$ - $\frac{1}{2}$)

13A-B-C-D Orchestra

Leib

Permission of the conductor required for membership.

Fall and Spring (1-1)

15A-B-C-D A Cappella Choir

D. F. Smith

Entrance upon examination.

Fall and Spring ($\frac{1}{2}$ - $\frac{1}{2}$)

***L16A-L16B-L16C-L16D Individual Study of an Orchestral Instrument.**

Fall and Spring (1-1)

* See page 118, conditions under which credit may be given for music study under private instructors.

MUSIC

*L17A-L17B-L17C-L17D Individual Study of Voice

Fall and Spring (1-1)

*L18A-L18B-L18C-L18D Individual Study of Piano or Organ

Prerequisite: The ability to play artistically hymns and folk songs of the type found in the Golden Book of Favorite Songs.

Fall and Spring (1-1)

20A-B-C-D Chorus

D. F. Smith

Open to anyone interested in singing standard choral works. No examination required.

Fall and Spring ($\frac{1}{2}$ - $\frac{1}{2}$)

26A-B-C-D Band

Leib

Permission of the conductor required for membership.

Fall and Spring (1-1)

27A-27B Music for Enjoyment

Springston

A course designed for students with little or no musical background. Lectures and discussions as a basis for intelligent listening to concerts, radio programs, and class presentation of recorded music. Not open to music majors and minors.

Year course (1-1)

L28A-L28B Beginning Piano

Springston

Fundamental playing and reading technics for the pianoforte. Emphasis upon playing by ear, and the development of interpretative ability. No credit for music majors and minors.

Year course (1-1)

29A-B Class Voice

D. F. Smith

A class for beginners in the vocal field taking up the problems of breath control, tone placement, articulation and enunciation. Frequent performance before class required. Limited to 15.

Year course (1-1)

30A-B Chamber Music

Leib

String and woodwind ensembles. The consent of the instructor necessary for admission to class.

Year course (1-1)

UPPER DIVISION COURSES

105A-105B Advanced Harmony and Composition

Springston

Study of the possible types of modulation and chromatic harmonies: continuation of harmonic analysis and original composition. Text Alchin: Applied Harmony Vol. II. Prerequisite: Music 4A-4B.

Year course (3-3)

* See page 118, conditions under which credit may be given for music study under private instructors.

106A Counterpoint

D. F. Smith

Study of the five species of counterpoint with much practice in writing in such forms. Application of contrapuntal style to modern composition. Prerequisite: Music 4A-4B.

Fall (2) (Offered in 1941-42 and alternate years)

107A Form and Analysis

D. F. Smith

Aural and visual analysis of music forms through a consideration of structure, harmonic content, and style. Prerequisite: Music 105A-105B.

Spring (2) (Offered in 1941-42 and alternate years)

111A-B-C-D Women's Glee Club—Treble Clef

L. D. Smith

Entrance upon examination.

Fall and Spring ($\frac{1}{2}$ - $\frac{1}{2}$) (A maximum of 2 units in glee club may be counted toward the A.B. degree)

112A-B-C-D Men's Glee Club

Springston

Entrance by examination.

Fall and Spring ($\frac{1}{2}$ - $\frac{1}{2}$) (A maximum of 2 units in glee club may be counted toward the A.B. degree)

113A-B-C-D Orchestra

Leib

Permission of the conductor required for membership.

Fall and Spring (1-1) (A maximum of $\frac{1}{4}$ units in orchestra may be counted toward the A.B. degree)

115A-B-C-D A Cappella Choir

D. F. Smith

Entrance by examination.

Fall and Spring ($\frac{1}{2}$ - $\frac{1}{2}$) (A maximum of 2 units in A Cappella choir may be counted toward the A.B. degree)

***L116A-L116B-L116C-L116D Advanced Individual Study of an Orchestral Instrument**

Fall and Spring (1-1)

***L117A-L117B-L117C-L117D Advanced Individual Study of Voice**

Fall and Spring (1-1)

***L118A-L118B-L118C-L118D Advanced Individual Study of Piano or Organ**

Fall and Spring (1-1)

119A Instrumental Conducting

Leib

Conducting and reading of orchestral scores.

Fall and Spring (1)

* See page 118, conditions under which credit may be given for music study under private instructors.

PHILOSOPHY

120A Vocal Conducting

D. F. Smith

The theory of vocal conducting together with practical experience gained from directing the college chorus. Prerequisite: Music majors with senior standing.

Fall and Spring (1)

121A Instrumentation

Leib

Arranging of music for full orchestra. Selected works of pupils to be performed by standard orchestras.

Spring (2)

126A-B-C-D Band

Leib

Permission of the conductor required for membership.

Fall and Spring (1-1) (A maximum of 4 units in band may be counted toward the A.B. degree)

130A-130B Chamber Music

Leib

String quintet and woodwind ensembles only. Permission of the instructor necessary for class membership.

Year course (1-1)

CONDITIONS UNDER WHICH CREDIT MAY BE GIVEN FOR MUSIC STUDY UNDER PRIVATE INSTRUCTORS

Credit may be allowed for private instruction in music under the following conditions:

1. The applicant for such credit must be a regularly enrolled student in the music department of the college.
2. The instructor giving such private work must be a regularly State-certificated teacher, or else be approved by the Music Department. All private work and the names of all such teachers must be registered in the office of the music department chairman at the beginning of the semester.
3. In the case of first semester private study, a placement examination conducted by the music department faculty at the beginning of the semester will show the status of the student at the beginning of his work.
4. Evidence that the standards of the Music Department have been met will be shown by an examination conducted by the music department faculty at the end of the semester.

PHILOSOPHY

LOWER DIVISION COURSES

5A Introduction to Philosophy

Steinmetz

The recurring problems of philosophy and the making of the modern mind. Prerequisite: Sophomore standing, or consent of instructor.

Fall (3)

PHYSICAL EDUCATION—MEN

5B Knowledge and Society

Steinmetz

Scientific method and the persistent topics of philosophy in their bearing upon the social problems of the day. Prerequisite: Philosophy 5A, except that sophomores planning to major in natural science may be admitted without prerequisite.

Spring (3)

UPPER DIVISION COURSES

105B Knowledge and Society

Steinmetz

Same as Philosophy 5B, except that upper division students will be held to more exacting contribution.

Spring (3)

120 Reflective Thinking (Logic)

Steinmetz

Analysis of fallacies, and the logic of argument and proof; also examination of reflective procedures in various fields of knowledge, and review of some psychological descriptions of thought. Prerequisites: Psychology 1A and Philosophy 5A.

Spring (3) (Offered in 1942-43 and alternate years)

130 Conduct (Ethics)

Steinmetz

The meaning of morality; motives and sources of belief, aspiration, ideal; psychological and sociological factors; representative ethical systems; relation of ethics to other axiological studies.

Spring (3) (Offered in 1941-42 and alternate years)

PHYSICAL EDUCATION

Men's Department

Candidates for a teaching credential in physical education should refer to the statement "Admission to Teacher Training Curricula" on page 28. For the teacher training curriculum in physical education see page 43.

LOWER DIVISION COURSES

A two-hour activity course each semester is required for the two years of lower division. A medical examination is given each student when entering and the work is fitted to his needs. Individual Adapted Activity sections to fit the special needs of the individual student are included. The content of the required two years is planned to give each student an opportunity to choose those sports which have carry-over value into after life. Opportunity is given all students to take part in the regular competitive sports program.

All lower division students are required to take one-half unit of physical education not including intercollegiate sports.

L1A-1B Freshman Activity

Year course, beginning either Fall or Spring ($\frac{1}{2}$ - $\frac{1}{2}$)

L1C-1D Sophomore Activity

Year course, beginning either Fall or Spring ($\frac{1}{2}$ - $\frac{1}{2}$)

Class sections are so arranged that the student may choose the activity he is most desirous of learning. Fundamentals of the sports listed are taught during the class hour.

Intercollegiate Sports

- L2A-L2B-L2C-L2D Golf Spring (1)
- L3A-L3B-L3C-L3D Track Spring (1)
- L4A-L4B-L4C-L4D Baseball Spring (1)
- L5A-L5B-L5C-L5D Basketball Spring (1)
- L6A-L6B-L6C-L6D Tennis Spring (1)
- L7A-L7B-L7C-L7D Boxing Spring (1)
- L8A-L8B-L8C-L8D Wrestling Spring (1)
- L9A-L9B-L9C-L9D Cross Country Fall ($\frac{1}{2}$)
- L10A-L10B-L10C-L10D Swimming Spring (1)
- L11A-L11B-L11C-L11D Fencing Spring (1)
- L13A-L13B-L13C-L13D American football Fall (1)
- L13X-L13Y-L13Z Spring football Spring ($\frac{1}{2}$)
- L14A-L14B-L14C-L14D Gymnastics Spring (1)
- L15A-L15B-L15C-L15D Badminton Spring (1)

The following courses fulfill degree requirements for physical education majors and meet State requirements for teaching credentials in physical education.

30 Emergencies

C. R. Smith

The accepted procedure in meeting the emergencies which daily arise in schoolroom, play or athletic field, beach, mountains, or any of the many places where the physical director is called on for first aid. Special attention given to the arrangement of the apparatus and the activities so that many of the most common accidents are prevented or minimized.
Fall (1)

L53 Physical Education in the Elementary School

Schwob

The content of the State program in physical education forms the basis of the course. Two lectures, two one-hour laboratory periods per week. May be taken as a substitute for 1D.

Required of all candidates for the elementary school credential and the special credential in physical education.

Fall and Spring (2 $\frac{1}{2}$)

L62A Gymnastic Activities

C. E. Peterson

Theoretical and practical work in marching, free exercises, and light and heavy apparatus. Emphasis on progression and method of presenting material. The simplest and most explanatory terminology.

Fall (2) (Offered in 1941-42 and alternate years)

L62B Gymnastic Activities **C. E. Peterson**

Acquisition of proficiency in the performance of a great group of gymnastic stunts always popular in the gymnasium and on the playground. Work of the recreational or self-interesting type rather than the formal. Tumbling, stunts, and pyramid-building given chief attention, although games of low organization are also considered.

Spring (2) (Offered in 1941-42 and alternate years)

L66 Playing Rules of Modern Games **C. R. Smith**

Thorough study of latest rules of modern major and minor sports.

Fall and Spring (1)

L72 Principles of Physical Education **Calland**

Cultivation of a favorable attitude for a professional study of physical education. Ideals and aims of physical education and the relation of physical education to school and society stressed.

Fall (2)

UPPER DIVISION COURSES

L154 Organization and Administration of Secondary Physical Education **Gross**

Study of general and specific problems that confront physical education departments in junior and senior high schools and in colleges. Prerequisite: Physical Education L72.

Spring (3)

L155 Applied Anatomy and Kinesiology **Young**

A scientific analysis of the structure, function and relationship of the organs, bony cavities, bones and joints of the skeletal, muscular, nervous and circulatory systems. In addition, the student will apply the results of the analysis in the selection of activities in relation to mechanical strength and durability as influenced by anatomical factors. Prerequisite: Zoology 20, or 108.

Spring (3) (Offered in 1941-42 and alternate years)

L156A Sports Methods **Gross, C. R. Smith**

Different theories and methods of teaching the more highly organized sports: basketball and baseball.

Fall (2) (Offered in 1942-43 and alternate years)

L156B Sports Methods **Young, C. E. Peterson**

Methods of teaching those sports most adaptable to the intramural and recreational programs: golf, handball, soccer, speedball, volley ball, badminton, archery, tennis, swimming, track, etc. Prerequisite: P. E. L 66.

Spring (2) (Offered in 1942-43 and alternate years)

161 Folk Dancing **Schwob**

Practice in folk and clog dancing. Methods of presentation, study of costumes and customs related to the dance. Notebooks required. Open to all upper division men and women.

Spring (2) (Offered in 1941-42 and alternate years)

L166 Technique of Officiating

Gross

Review of material presented in Physical Education L66. Methods of officiating all the sports common to the school or college program; also methods of training student officials. Practice in the handling of elementary, junior high, senior high and intramural college competition. Prerequisite: Physical Education L66.

Spring (2)

L168 Physiology of Exercise

Bennett

A non-laboratory course emphasizing the relation of physiology to muscular exercise in physical activities. Prerequisite: Zoology 20 or the equivalent.

Spring (2) (Offered in 1942-43 and alternate years)

L169 Technique of Teaching Activities

Young

Directed leadership in activities. A course preliminary to practice teaching in which students are given opportunity to develop teaching techniques in an orderly, detailed, directed, and supervised experience. Requirements include the handling of classes, construction of tests, lesson plans and preparation of a syllabus. One hour of lecture, and two hours of laboratory per unit. Prerequisite: Admission to teacher training.

Spring and Fall (1-2)

L170 Recreational Leadership

Shafer

Fundamentals of recreational leadership developed by instruction in club and camp activities, the study of school recreational needs and facilities, and of civic recreation. Open to all upper division men and women. Recommended to students interested in social service.

Spring (2) (Offered in 1942-43 and alternate years)

L180 Theory of Coaching Football

Calland

Methods of coaching football. Details of teaching individual fundamentals, offensive and defensive team play, strategy, and conditioning of athletes. Two hours of lecture and three hours of laboratory.

Spring (2)

L190 Individual Program Adaptation

Young

An introductory course dealing with the analysis and evaluation of aims, techniques, and procedures in the preventive and corrective physical education program. Special emphasis will be given to such problems as survey of the situation, recognition of divergencies, selecting and assigning of students, instructional programs, motivation, follow-up, teacher limitations, and public relations. Prerequisite: P. E. 155, Zoology 20, and senior standing.

Fall (3) (Offered Fall 1942-43 and alternate years)

WOMEN

Women's Department Candidates for a teaching credential in physical education should refer to the statement "Admission to Teacher Training Curricula" on page 28, and to the outline for the A.B. Degree with Special Credential in Physical Education on pages 45 and 46.

LOWER DIVISION COURSES

Two hours of directed physical activity are required throughout the freshman and sophomore years. Freshman students may choose courses from the following, L1A, L1B, L1C. Sophomore students may choose from all activity courses offered.

L1A Fundamental Skills **Bennett**

Practice in efficient fundamental body movements.

Fall and Spring ($\frac{1}{2}$)

L1B Folk Dancing **Pease**

L1C Rhythmic Skills **Pease**

Fundamental movements, simple dance forms and improvisation. Both L1B and L1C required of all women candidates for the special credential in physical education.

Fall and Spring ($\frac{1}{2}$)

Sophomores may elect from the following: **Physical Education Staff**

L2A-L2B Folk Dance

L3A-L3B-L3C-L3D Modern Dance

L4A-L4B Social Dance

L5A-L5B Archery

L6A-L6B Badminton

L7A-L7B Golf

L8A-L8B-L8C-L8D Seasonal Sports

L9A Stunts and Tumbling

L10A-L10B-L10C Swimming and Life Saving

L11A-L11B Tennis

L12A-L12B Advanced Modern Dance Laboratory experiments in advanced choreography and percussion accompaniment. For men and women. Prerequisites 1C and 3A for women, 1C for men.

Fall and Spring (1-1)

Any of the above activities may be taken for additional credit.

L1 Safety Education **Bennett**

Prevention of accidents: practical application of first aid methods leading to American Red Cross First Aid Certificate.

Fall (1) (Offered in 1942-43 and alternate years)

L53 Physical Education in the Elementary School

Schwob

The content of the State program in physical education forms the basis of the course. Two lectures, two one-hour laboratory periods per week. Required of all candidates for the elementary school credential and the special credential in physical education.

Fall and Spring (2½)

Sports

1. The individual activities, swimming, tennis, golf, archery, badminton and dancing are offered through the year. Candidates for the special credential in physical education select *one* as a major activity and two others as minors. Skills in the activities thus selected must be maintained as prerequisite to the senior course, Physical Education L185. (See page 125.)

2. The seasonal group sports are volley ball, basketball, hockey, speedball or soccer, and baseball. Candidates for the special credential in physical education must participate in at least *two seasons of each*.

3. The Women's Athletic Association sponsors the intramural sports program. Under its direction competition in dual and group games is promoted throughout the year. Open to all college women.

UPPER DIVISION COURSES

Open to all Women. Required of women candidates for the special credential in physical education.

L153 Administration of Secondary Physical Education

Schwob

Study of administrative problems applied to high school situation including organization of instructional and recreational programs, classification of students, and routine administration.

Spring (2) (Offered in 1942-43 and alternate years)

L155 Applied Anatomy and Kinesiology

Young

A scientific analysis of the structure, function and relationship of the organs, bony cavities, bones and joints of the skeletal, muscular, nervous and circulatory systems. In addition the student will apply the results of the analysis in the selection of activities in relation to mechanical strength and durability as influenced by anatomical factors. Prerequisite: Zoology 20 or 108.

Spring (3) (Offered in 1941-42 and alternate years)

L157A-L157B Sports Methods

Shafer

Practice for skill, study of rules, and of coaching methods. Prerequisite: A season's experience in at least four of the following sports: volley ball, basketball, hockey, speedball, soccer, baseball.

Year course (2-2)

L160 Principles of Teaching Gymnastics

Schwob

Gymnastic materials and methods followed by practice in teaching marching, gymnastics and use of apparatus.

Fall (2) (Offered in 1941-42 and alternate years)

- 161 Folk Dancing** **Schwob**
 Practice in folk and clog dancing. Methods of presentation, study of costumes and customs related to the dance. Notebooks required. Open to all upper division men and women.
Spring (2) (Offered in 1941-42 and alternate years) Open to men and women.
- 164A-L164B Methods in Modern Dance** **Pease**
 Laboratory experiments in advanced choreography and percussion accompaniment. Historical survey and practical experience in production techniques and teaching methods. Two activity periods and one lecture per week. For men and women. Prerequisites same as for L12A.
Year course (2-2) (Offered in 1942-43 and alternate years)
- 168 Physiology of Exercise** **Bennett**
 Non-laboratory course emphasizing the relation of physiology to muscular exercise in physical activities. Prerequisite: Zoology 20 or the equivalent.
Spring (2) (Offered in 1942-43 and alternate years)
- 169 Technique of Teaching Activities** **Schwob**
 Observation, lesson planning and teaching in college classes.
Fall and Spring (3)
- 170 Recreational Leadership** **Shafer**
 Fundamentals of recreational leadership developed by instruction in club and camp activities, the study of school recreational needs and facilities, and of civic recreation. Open to all upper division men and women. Recommended to students interested in the recreational aspects of social service.
Spring (2) (Offered in 1941-42 and alternate years)
- 173 Principles of Physical Education** **Schwob**
 Study of the more significant influences shaping the trend of physical education in the past and present. General philosophy and principles of physical education and its relation to general education.
Fall (2) (Offered in 1942-43 and alternate years)
- 177 Individual Program Adaptations** **Schwob**
 Adjustments of the physical education program to the physical needs and capacities of individuals: problems concerning protective and preventive measures which are not highly specialized corrective phases.
Spring (2) (Offered in 1942-43 and alternate years)
- 185 Technique of Individual Sports** **Shafer**
 Course summarizing rules, teaching methods, and individual playing ability. A required senior course. Can not be taken until all requirements regarding sports and games have been fulfilled. (See page 124.)
Fall (1)

PHYSICAL SCIENCES

The courses offered in the Physical Sciences are listed below. See page listed after each subject for a more complete description of the offering under that designation. Astronomy, see page 73; Chemistry, page 77; Geology, page 103; Physical Science, page 126; and Physics, page 126.

PHYSICAL SCIENCE

Lower division preparation for the liberal arts major in physical science and for the junior certificate: Fulfillment of the departmental requirements for upper division work in at least two of the following sciences: Astronomy, chemistry, geology, and physics. Recommended: A reading knowledge of French and German.

Liberal arts major (upper division) in physical science, required: Twenty-four units of upper division work in two or more of the physical sciences: Chemistry, geology, and physics, with a minimum of six units in each of two of these sciences.

LOWER DIVISION COURSE

1A Introduction to Physical Science

Watson

A survey course dealing with the nature of man's physical universe. Emphasis will be upon materials chosen from topics in astronomy and physics to show the nature and development of the scientific method and man's use of energy. Not open to students who have had high school or college physics or astronomy. May be taken with or without plans to continue with 1B.

Fall and Spring (3)

1B Introduction to Physical Science

Watson

A continuation of Physical Science 1A. Emphasis will be upon units chosen from geology and chemistry to show the origins of natural materials and their use by man in the modern world. Not open to students who have had high school or college chemistry or geology. May be taken with or without credit in Physical Science 1A.

Fall and Spring (3)

L40 Man and His Physical World

Watson

A brief survey of the nature of the scientific method and of selected topics in physical science. Materials will be chosen from physics, chemistry, astronomy, and geology in order to give some background for an understanding of the relations of physical science to modern life. Not open to students who have had both high school or college physics and chemistry or either of these subjects together with either astronomy or geology. *Open only to students enrolled in a two-year curriculum.*

Fall and Spring (3)

PHYSICS

Lower division preparation for the liberal arts major in physics and for the junior certificate: Physics 1A-1B-1C-1D; Chemistry 1A-1B; Mathematics 3A-3B and 4A-4B, or their equivalents. Recommended: A reading knowledge of French and German.

PHYSICS

Liberal arts major (upper division) in physics, required: Twenty-four units of upper division work in physics including Physics 105A-105B and 110A-110B. Six of the twenty-four units may be elected in related subjects and deviations from these requirements may be made on consultation with the chairman of the department.

LOWER DIVISION COURSES

1A-1B Mechanics and Heat

Moe, Worley

Mechanics, properties of matter, and heat. A development of the fundamental ideas which underlie the subject of physics, and the application of them in the discussion of practical problems. Lectures, text assignments, problem sets, and experimental laboratory work. Two lectures, and one laboratory period each week. Prerequisites: High school physics or chemistry, and trigonometry. Students deficient in any part of this requirement may enroll only with the permission of the instructor.

Year course (3-3)

1C-1D Electricity, Magnetism, Sound, and Light

Baird

A continuation of Physics 1A-1B for students in the sophomore year. Two lectures and one laboratory period each week.

Year course (3-3)

2A-2B General

Baird

Properties of matter, mechanics, heat, sound, light, electricity, and magnetism. A nonengineering course. Lectures, demonstrations, and discussions. Prerequisite: Two years of high school mathematics.

Year course (3-3)

3A-3B Physical Measurements

Baird

Laboratory work in mechanics, properties of matter, heat, sound, light, electricity, and magnetism. Usually taken in conjunction with Physics 2A-2B.

Year course (1-1)

UPPER DIVISION COURSES

105A-105B Analytical Mechanics

Moe

Treatment of fundamental principles of statics, kinematics and dynamics of particles and rigid bodies. Prerequisites: Physics 1A-1B or 2A-2B and a working knowledge of calculus.

Year course (3-3) (Offered in 1942-43 and alternate years)

106 Optics

Worley

A review of reflection, refraction and dispersion, with applications to optical instruments, followed by a survey of phenomena indicative of the physical nature of light: interference, diffraction, polarization, and spectral radiation. Prerequisite: Eight units in physics.

Fall (3) (Offered in 1942-43 and alternate years)

106L Optical Measurements

Worley

Laboratory work to accompany Physics 106.

Fall (1) (Offered in 1942-43 and alternate years)

PHYSICS

107A-107B Electrical Measurements

Worley

Laboratory work designed to accompany Physics 110A-110B. Emphasis placed on the theory and use of electrical measuring instruments.

Year course (1 or 2 units for the year) (Offered in 1941-42 and alternate years)

108 Modern Physics

Worley

An introduction to physical investigations of the last half-century. Atomic structure and quantum theory in the light of high-vacuum phenomena, series in optical spectra, natural and induced radioactivity and allied subjects. Prerequisite: Eight units in physics.

Spring (3) (Offered in 1942-43 and alternate years)

108L Modern Physics Laboratory

Worley

Laboratory, to accompany Physics 108.

Spring (1) (Offered in 1942-43 and alternate years)

110A Introduction to Electricity and Electromagnetism

Worley

Elements of the mathematical theory of electrostatics, of magnetostatics and magnetism, and of steady and varying currents. Students are encouraged to accompany the course with 1 unit of laboratory work. Prerequisites: Eight units in physics, and Mathematics 3A-3B.

Fall (3) (Offered in 1941-42 and alternate years)

110B Principles of Electromagnetism and Electronics

Worley

A more complete study and an extension of the material surveyed in Physics 110A, illustrated with practical applications. Prerequisites: Physics 110A and consent of the instructor.

Spring (3) (Offered in 1941-42 and alternate years)

112 Advanced Heat

Moe

Thermal properties of matter. An introduction to the kinetic theory of gases and the laws of thermodynamics. Prerequisites: Eight units in physics and a working knowledge of calculus.

Spring (3) (Offered in 1941-42 and alternate years)

112L Advanced Heat Laboratory

Moe

Laboratory work in advanced heat, designed to accompany Physics 112.

Spring (1) (Offered in 1941-42 and alternate years)

114 Wave Motion and Sound

Moe

A study of wave motion and its applications to sound production and transmission. The principles of musical instruments and architectural acoustics. Prerequisite: Eight units in physics.

Fall (3) (Offered in 1941-42 and alternate years)

114L Sound Laboratory

Moe

Laboratory work in wave motion and sound, designed to accompany Physics 114.

Fall (1) (Offered in 1941-42 and alternate years)

199 Special Study

Baird, Moe, Worley

Reading or work on special problems in physics. Admission by consent of the instructor. Credit and hours to be arranged in each case. Open to students who have completed at least eight units of work in the department with grade of A or B.

Fall and Spring (1 or 2-1 or 2)

PHYSIOLOGY

LOWER DIVISION COURSES

1A Human Physiology

Crouch

A lecture course considering the functions of the human body. Prerequisites: Elementary chemistry and high school or college biology or zoology. Three hours of lecture per week.

Summer (3) (Offered Summer Session 1941)

1C Human Physiology

Crouch

A study of the human functions through laboratory experiments and demonstrations. Prerequisites: Physiology 1A completed or in progress. Six hours of laboratory per week.

Summer (2) (Offered Summer Session 1941)

UPPER DIVISION COURSES

101 Cellular Physiology

Darsie

A study of the vital activities of protoplasm, stressing the various physicochemical relationships involved. Laboratory study of both plant and animal material will serve as an introduction to the methods of modern experimental biology. Two hours of lecture and six hours of laboratory per week. Prerequisite: One year of Life Science in college and three units of college chemistry. Additional training in chemistry and physics is desirable.

Fall (4) (Offered in 1942-43 and alternate years)

POLITICAL SCIENCE

The minor in political science: from twelve to eighteen units of work is recommended. At least half the work should be chosen from upper division courses.

It is suggested that students who expect to major in political science plan their lower division work to include both Political Science 1A-1B and 71A-71B, and either Economics 1A-1B or History 4A-4B.

LOWER DIVISION COURSES

1A-1B Comparative Government

Leonard

A comparative study of typical governments. Semester I: England, France, and Switzerland. Semester II: Italy, Germany, Russia, and Japan.

Year course (3-3)

71A-71B American Government and Politics

Osborn

71A—Governmental organization in the United States; the federal system, organization, powers and functions of the legislative, executive and judicial branches of the national government, and the expansion of its activities.

71B—Development of the means of democratic control of government in the United States; the history, motivation, methods and control of political parties; party machines; election systems; influence of minority groups; the lobby; the press.

This course is not open to freshmen.

Year course (3-3)

UPPER DIVISION COURSES

101 American Institutions

Leonard

A study of the principles of the Constitution of the United States, and a survey of the political and social institutions which have developed under it.

All candidates for the bachelor's degree are required by state law to secure credit in this course, unless they have completed one of the following courses: History 171A-171B, 173A-173B, Political Science 113, 175A-175B. This course is offered only in the fall semester.

Enrollment is limited to students of junior or senior standing, except with the consent of the instructor.

Fall (2)

111 Theory of the State

Leonard

The nature of the State, its organization and activities, and its relation to the individual and to other states. Special attention will be given to recent developments in the field of political thought.

Fall (3) (Offered in 1942-43 and alternate years)

113 American Political Ideals

Leonard

Underlying theories and principles of American governmental policy.

Spring (3) (Offered in 1942-43 and alternate years)

136A-136B Problems of the Pacific Area

Osborn

Particular emphasis during the first semester on the development through the 19th Century of the governmental problems of the Far East, both internal and international. The second semester will be devoted to a consideration of the 20th Century aspects of these problems.

Year course (3-3)

141 Theories of International Relations

Osborn

The development of ideas concerning international relations from ancient through modern times. Theories of nationalism, imperialism, internationalism, and cosmopolitanism will be reviewed and their validity considered in the light of modern experience.

Fall (3)

142 International Organization

Osborn

Prewar attempts at international organization, the effect of the World War on ideas of international relationships, postwar attempts at organization. Special attention will be given to the organization and development of the League of Nations, its machinery, accomplishments and failures, and to national attitudes toward cooperation since the war.

Spring (3)

143A-143B Principles of Public Administration in the United States

Osborn

A study of the development of executive agencies in the American federal government and the relationship between these agencies and the changes in American concepts concerning the proper field of governmental activity.

Year course (3-3) (Offered in 1941-42 and alternate years)

175A-175B—American Constitutional Development

Leonard

A study of the work of the Convention of 1787, and of significant phases of American constitutional law.

Year course (3-3) (Offered in 1941-42 and alternate years)

PSYCHOLOGY

Lower division preparation in psychology for advanced work and junior standing. Required: Psychology 1A-1B, Zoology 1A-1B or Biological Science 10A-10B, Philosophy 5A-5B. Recommended: French, German, chemistry, physics, anthropology, and sociology.

LOWER DIVISION COURSES

1A General

Burlingame

An elementary survey of normal adult psychology, focused upon personality; the subjective and objective aspects of behavior. Furnishes basis for all other courses in psychology. Prerequisite: Sophomore standing.

Fall and Spring (3)

1B General

Burlingame

A continuation of general psychology designed to familiarize the student with (1) elementary experimental methods, (2) famous experiments in psychology, and (3) some one topic (not included in upper division courses) in which he pursues an independent experimental approach.

Prerequisite: Psychology 1A.

Spring (3)

4A Applied

Applications of psychology to problems of the individual in learning, making social adjustments, choosing a vocation, developing desirable personal traits, and achieving success and happiness. Survey of psychology as applied in education, music, art, speaking, writing, law and medicine. Prerequisite: Psychology 1A. Recommended: Psychology 1B.

Fall (2)

4B Psychology Applied in Business

Peiffer

Applications of psychology to a wide range of problems encountered by the man in business. Motives, attitudes, habits, and traits in their rela-

tion to behavior of employer, employee, and executive. Advertising, salesmanship, and problems of selecting, placing and increasing the efficiency of employees. Business cycles, and business research. Prerequisite: Psychology 1A. Recommended: Psychology 1B and Psychology 4A.

Spring (2)

L40 Psychology and Life

An elementary survey of normal adult psychology, focused upon psychological principles in relation to life situations. *Open only to students enrolled in a two-year curriculum.*

Fall and Spring (3)

UPPER DIVISION COURSES

102A Genetic: Child

Steinmetz

This course represents the main effort of the psychology department to provide an orientation toward parenthood. The course has been developed in recognition of the need for the establishment of parental-domestic adjustment through the study of child growth and development from the prenatal period to adolescence and through common knowledge by parents of relevant material in genetics and child psychology; emphasis is practical.

Fall (3)

102B Genetic: Adolescence

Survey of the wealth of knowledge in physiology, sociology, and psychology recently made available to parents and professional workers with youth just before, during, and after puberty.

Spring (3)

105 Mental Testing

A brief history of intelligence testing and the fundamental assumptions underlying the construction of tests. The Stanford revision of the Binet-Simon test illustrated by demonstrations. Each student required to give at least 20 individual tests. Group intelligence tests discussed and demonstrated. Prerequisites: Psychology 1A and Education 102A. Recommended: Psychology 1B, 102, Education 140.

Fall (3)

118 Mental Hygiene

Problems, personality adjustment, emotional problems, attitudes, conflicts, neurotic behavior, conduct disorders of both child and adult.

The beginnings of undesirable attitudes and habits and methods of treating them are stressed more than serious cases of maladjustment which are either incurable or problems for a psychiatrist. The methods of building wholesome personality are emphasized more than the analysis of extreme disorders. Prerequisite: Psychology 1A. Recommended: Psychology 1B, 102.

Fall or Spring (3)

145 Social Psychology

Steinmetz

Personality as it develops in relation to social environment. Suggestion, imitation, leadership, the crowd, public opinion, social control, prejudice,

SECRETARIAL TRAINING

propaganda, sex differences, race differences, etc. Prerequisite: Psychology 1A. Recommended: Psychology 4A.

Fall and Spring (3)

150 Abnormal Psychology

Steinmetz

The relation of psychology to the psycho-neuroses and insanity; the appearance of abnormal traits in incipient stages of mental disturbances. Methods of diagnosis and early treatment.

Spring (3)

160 Experimental Psychology of Learning

Introduction to instrumental and comparative psychology and to methods of research in the development of behavior theory. Prerequisite: 5 units of other work in the department and consent of the instructor; required of those seeking a major.

Fall (3)

SECRETARIAL TRAINING

LA Business Mathematics

Bromley

A practical course in the mathematics of business. A thorough study of interest, compound interest, discount, amortization tables, insurance rates, etc.

Fall and Spring (1) (No degree credits in Liberal Arts curricula)

L1A-L1B Typewriting

Amsden

A rapid development of a thorough command of a keyboard by the touch method. The acquisition of speed and the artistic arrangement of type-written material with special reference to commercial forms, tabulation and billing; specifications, legal forms, and preparation of manuscripts; transcription, mimeographing, etc. Eight hours lecture and laboratory practice.

Year course (3-3) (No credit will be counted toward A.B. degree requirements except in the curricula leading to the Business Education credential)

L2A Typewriting

Amsden

A short course designed for those not wishing to enter the business office but desiring a knowledge of the use of the typewriter. Five hours laboratory practice.

Spring (2)

L3A Office Methods and Appliances

Wright

Practice and principles of office management, including organization, arrangement and operation. Study and use of modern office appliances such as the multigraph, mimeograph, filing devices, calculating and book-keeping machines. Prerequisite: Secretarial Training 1A or its equivalent.

Fall and Spring (3)

L5A-L5B Stenography

Amsden

An intensive course designed for the practical preparation of office secretaries. A thorough study of the Gregg System. Development of the

SOCIAL SCIENCES

ability to read and write shorthand rapidly and correctly, both literary and commercial. The shorthand speed necessary to pass a civil service examination is attained by the end of the year.

Year course (5-5)

L6A-L6B Advanced Stenography

Amsde

Development of speed in writing and transcription. Advanced dictation on letter forms, legal forms, speeches, and literary and technical material

Year course (3-3)

English in Business (*See English, page 95*)

SOCIAL SCIENCES

The courses offered in the Social Sciences are listed below. See pages listed after each subject for a more complete description of the offerings under that designation. Anthropology, see page 69; Economics and Commerce, page 80; Geography, page 100; History, page 106; Political Science, page 129; Social Science, page 134; and Sociology, page 135.

SOCIAL SCIENCE

Lower division preparation for the liberal arts major in social science: Fulfillment of the departmental requirements for upper division work in at least three of the following sciences: Anthropology, economics, geography, history, political science, sociology.

Liberal arts major (upper division) in social science, required: Twenty-four units of upper division work including a concentration of twelve upper division units in one of the following fields and six units in each of two others: Anthropology, economics, geography, history, political science, sociology.

This major is available only to students who are preparing for graduate work in anthropology, political science, or sociology, and to those enrolled in certain preprofessional and other curricula. Official approval for candidacy for a degree with a social science major must be obtained from the dean of liberal arts.

LOWER DIVISION COURSES

1A Contemporary Political, Social and Economic Problems Greer

An analysis of major problems of the present day with reference to the conditions out of which they arise and with regard to their essential unity and interrelationships. An attempt to introduce the student to sound methods of approach in dealing with these problems.

Fall and Spring (3)

1B American Trends Since 1918

Greer

Main currents of American life since the World War. Stress on immediate background of modern institutions. Aims to familiarize students with the major events which have occurred during the lifetime of the present college generation.

Fall and Spring (3)

L40 Contemporary Problems

Greer

A survey of the major political, social, and economic forces in modern American life. Chief problems are analyzed in relation to their setting, and students are given sound methods of approach in dealing with them. *Open only to students enrolled in a two-year curriculum.*

Fall and Spring (3)

L45 American Democracy

Greer

The structure and function of government, as it relates to individual Americans. Special emphasis on popular participation through voting, political parties, pressure groups, and public opinion. Prerequisite: Sophomore Standing. *Open only to students enrolled in a two-year curriculum.*

Spring (3)

SOCIOLOGY

Lower division preparation for the liberal arts major in social science with concentration in sociology: Sociology 50A, 50B; Economics 1A-1B and one of the following year courses: Anthropology 50A-50B, Political Science 1A-1B, 71A-71B. See requirements for the social science major, page 134.

LOWER DIVISION COURSES

L40A Social Problems

Fay V. Perry

A survey of major present-day social problems, with the intent of broadening the student's interests, and preparing him to understand and work for conditions desirable to the society of which he is a part. The course has also the object of helping the student in solving his personal problems of adjustment to life-situations, in the family, the college, the business and social world. *Open only to students enrolled in a two-year curriculum.*

Fall and Spring (3)

L40B Marriage and the Family

Fay V. Perry

The purpose of this course is to prepare young people for successful marriage and family life. The development of the personality through family relationships, the choice of a life partner, and the social and economic factors involved in the establishment of a home, are given special emphasis. The importance of the family as a unit in larger social groupings is stressed, and both psychological and material factors which affect the welfare of family members are brought to the student's attention. *Open only to students enrolled in a two-year curriculum.* Prerequisite: Sophomore standing.

Spring (3)

50A Introduction to Sociology

Barnhart

A study of modern social problems recognizing the geographic, economic, psychological, and sociological factors involved. Emphasis is on a scientific method of approach. An evaluation of various causes and solutions of problems is made.

Fall (3)

50B General Sociology

A study of the nature and organization of human group activity, including the relation of cultural heritage to public opinion and social change. Previous preparation in biology and psychology recommended.

Fall and Spring (3)

55 Marriage and Family Life

Fay V. Perry

A psychological and sociological approach to the study of marriage and the family. Some of the topics considered are: relation of courtship to marriage; emotional maturity and marriage; eugenic aspects of marriage; college marriages; harmony in modern marriage; economic adjustment in marriage, parenthood. Prerequisite: Health Education 1 or 2; a biological science and Psychology 1A recommended. Not open to Freshmen.

Fall and Spring (3)

UPPER DIVISION COURSES

100 General Sociology

Barnhart

A course in general sociology for upper division students. The development and use of the concepts of sociological analysis, such as human nature, the effects of isolation and social contacts upon the development of personality; social interaction; social processes; social forces; social control; collective behavior; and social progress. Not open to students who have credit for Sociology 50B.

Spring (3)

105 Social Pathology

Barnhart

A study of the alleged abnormal phenomena in society; family disorganization and personal demoralization; pathology of individual and group relationships and of economic, social, and cultural relationships.

Fall (3)

106 Criminology and Penology

Barnhart

The extent and characteristics of crime; consideration of physical, mental, economic, and sociological causes of crime; study of methods of penal discipline, prison labor, parole, and probation; programs of prevention.

Spring (3)

108 The Family

Barnhart

History of marriage and family as a social institution. Effects of various economic and social factors on the modern family; higher education and the birth rate; married women in industry and professions; causes of desertion and divorce and their sociological effects. Not open to students who have credit for Sociology 55.

Fall (3)

109 Fields of Social Work

Barnhart

A survey of the nature of social work and the various kinds of social work which are found in modern urban life. The student is familiarized with the various social agencies in the community, their problems and methods of work, by readings and field trips. Volunteer social work in some social agency recommended.

Spring (3)

126 Social Reform Movements

Greer

A study of organized efforts to change social institutions in the United States since 1865. Emphasis given to backgrounds, objectives, techniques, and relationship to democracy of each movement.

Fall (3)

197 Urban Sociology

Barnhart

A study of the structure and function of the modern city; types of neighborhoods; forms of recreation; social forces in a metropolitan area; types of urban personalities and groups; rural-urban conflicts of culture. Practical field studies required.

Fall (3)

199A-199B Special Study

Barnhart

The student is introduced to the methods and techniques used in the scientific investigation of society, such as the historical, statistical, case-study, personal history, survey, and other methods of social investigation. Actual practice in doing various types of field studies is required.

Designed exclusively for seniors with concentration in sociology in the social science major and for seniors pursuing the courses of study in the social work curriculum.

Fall (1), Spring (2)

SPANISH

Lower division preparation for the liberal arts major in Spanish: Spanish A-B-C-D; French A-B; History 4A-4B.

Liberal arts major in Spanish: Twenty-four units of upper division work, of which at least eighteen must be in Spanish, and of which a maximum of six may be in related subjects, arranged in consultation with the chairman of the department. At least a C average in upper division major courses.

LOWER DIVISION COURSES

A-B Elementary

Baker, L. P. Brown

Intensive study of Spanish grammar and syntax, with daily written work; class drill in conversational idiom and pronunciation; reading with oral discussion and résumé; dictation; introduction to contemporary prose writers. Credit not given for Spanish A unless followed by Spanish

B. Students who have had one year of Spanish in high school should register for Spanish B. Those who have had two years of Spanish in high school should register for Spanish C. Those who have passed L40B should register for Spanish B. No credit given for repetition of high school work.

Year course (5-5)

C-D Intermediate

Phillips

Reading and composition: study of standard prose as basis for class work; collateral reading in prose and drama, with written reports in Spanish; dictation. Class work conducted mainly in Spanish. Individual conferences. Prerequisite: Spanish B or two years of high school Spanish, or its equivalent. Students with credit for three years of high

school Spanish, or its equivalent, should enter Spanish D, and will receive full credit.

Year course (3-3)

L40A-L40B Elementary

Baker

A course similar to Spanish A-B, but meeting only three times a week and giving only three units of credit a semester. Credit not given for Spanish L40A unless followed by Spanish L40B. *No credit given for repetition of high school work. Open only to students enrolled in a two-year curriculum.*

Year course (3-3)

UPPER DIVISION COURSES

101A-101B Conversation and Composition

Phillips

Prerequisite: Spanish D, or its equivalent, with grade of C.

Year course (3-3)

102A-102B Introduction to Spanish Classics

L. P. Brown

Reading from several types of classical literature. Lazarillo de Tormes and other novels of Roguery; selections from Don Quixote, and the Cien Mejores Poesias Castellanas; one drama each from the works of Lope de Vega, Calderon, Alarcon, and Moreto; collateral reading and reports. Prerequisite: A grade of C in Spanish D or permission from the instructor.

Year course (3-3) (Offered in 1942-43)

104A-104B Spanish-American Literature

Phillips

A survey of the whole field of Spanish-American literature during the colonial, revolutionary and modern periods. Lectures, class reading, collateral reading and reports. Prerequisite: A grade of C in Spanish D or permission from the instructor.

Year course (3-3) (Offered in 1944-45)

105A-105B Modern Spanish Drama

L. P. Brown

The development of the drama of Spain from the beginning of the nineteenth century to the present time. Prerequisite: A grade of C in Spanish D or permission from the instructor.

Year course (3-3) (Offered in 1943-44)

110A-110B Novel and Short Story in Spain

L. P. Brown

The development of the novel and short story in Spain from 1830 to the present time. Prerequisite: A grade of C in Spanish D or permission from the instructor.

Year course (3-3)

199 Comprehensive Reading and Survey Course

The Staff

Designed to fill up the gaps in the reading done in courses. Class meeting once a week for guidance, reports, and quizzes. Required of all seniors majoring in Spanish.

Spring (3)

SPEECH ARTS

Lower division preparation for the major in Speech Arts: Speech Arts 1A-1B, 55A-55B, and six units chosen from 1C-1D, 55C-55D, 60B, 63A-63B-63C-63D. Recommended: Aesthetics 1A-1B, 50; Art 52A, 94.

Liberal Arts major (upper division): Twelve units chosen from Speech Arts 108, 150, 155A-155B, 156A-156B, 163A-163B; and six units from Speech Arts 157A-157B, 175, or 163A-163B; and six units from English 117A-117B, 152A-152B. Recommended: English 110, 116B; French 105A-105B, 111A-111B; Physical Education 164A-164B; 105A.

Candidates for the teaching credentials in Speech Arts should refer to "Admission to Teacher Training Curricula" on page 28 or to the note regarding the Special Credential in Correction of Speech Defects on page 46.

LOWER DIVISION COURSES

1A Fundamentals of Public Speaking **F. L. Johnson, Pfaff**

Training in fundamental processes of oral expression; methods of obtaining and organizing material; outlining principles of attention and delivery; extemporaneous speaking and open forum debating; practice in construction and delivery of type forms of speech.

Fall and Spring (3)

1B Extemporaneous Speaking (or Forum Speaking) **Pfaff**

Practice in extemporaneous speaking on subjects of current interest both national and local, with stress laid on the organization and delivery of content material. Forum discussion will provide speakers with the opportunity of assembling facts quickly to meet such questions as any audience situation might demand.

Spring (3)

1C Oral Interpretation **Pfaff**

The oral interpretation of longer literary selections, both in poetry and prose; a fundamentals course designed for the beginning students in drama as well as those majoring in English literature.

Fall (3)

1D Advanced Interpretation **Pfaff**

Emphasis placed on stage poise and grace with adequate attention given to variations in the presentation of literary selections. Much opportunity is provided for individual and group creative work. No prerequisite. Class limited.

Spring (3)

20 Corrective Speech **Pfaff**

Corrective laboratory training prescribed on the basis of vocalization tests made on Electro-Vox Recording Machine. Required of education majors who fail to meet speech requirements test. Private clinical assistance given to stutterers and lispsers.

Fall and Spring (1) (9 weeks' course)

L40 Fundamentals of Public Speaking

Peiffer

Training in fundamental processes of oral expression; practice in organization and presentation of material; emphasis upon speech in daily situations, including public discussion, conversation, recitation, extemporaneous speaking, and short speeches for special occasions. *Open only to students enrolled in a two-year curriculum.*

Fall and Spring (3)

55A-55B Dramatic Production

Jones

A course for first and second year students in which, through participation, they acquire an understanding of certain dramatic periods and types studied in English literature. Individual and group expression coordinated and developed in production of scenes, acts, and plays—a fundamental drama course emphasizing modern trends. No prerequisite.

Year course (3-3) (Offered in 1941-42 and alternate years)

55C-55D Dramatic Expression

Jones

A course designed to help first and second year students realize and develop their own abilities for expressing character and life. Coordination of thought, voice, and body, acquired through interpretation, impersonation, and acting of contemporary situations, creative and standard drama. History, technique, and use of dramatic expression studied. Informal participation by all. Best work given public performances. A fundamental course. No prerequisite.

Year Course (3-3) (Offered in 1942-43 and alternate years)

60 Argumentation and Debate

Peiffer

Obtaining and organizing of evidence and the construction and use of the brief; study and discussion of current issues; the presentation of formal and informal debates. Attention to intramural and intercollegiate debating.

Spring (3)

61A-61B-61C-61D Intercollegiate Debate

Peiffer

Year course, each year (1)

63A-B-C-D Verse Choir

Jones

Participation in verse speaking chorus to develop quality, range of tone, and ability in dramatic visualization of poetry. Required for speech arts credential.

Fall and Spring (1-1)

UPPER DIVISION COURSES

108 Art of Interpretation

Pfaff

Analysis of various types of literature. Material chosen will emphasize the finer techniques of oral expression to develop the imagination, the emotional power, reading skill and platform deportment in its varied phases. Prerequisite: One year of College Speech or equivalent.

Spring (3)

110 Recreational Reading

Dickhaut

See English, page 96.

- 116B The Elizabethan Drama** **Adams**
 See English, page 97.
- 117A-117B Shakespeare** **F. L. Johnson**
 See English, page 97.
- 150 Phonetics** **Pfaff**
 Auditory and kinaesthetic analysis of the sounds of the English language. Valuable as a corrective course in pronunciation and articulation. Required of speech majors and those seeking Speech Correction Credential.
Fall (2)
- 152A Survey of Drama: Comedy**
 See English, page 98.
- 152B Survey of Drama: Tragedy**
 See English, page 98.
- 155A-155B Advanced Dramatic Expression** **Jones**
 For upper division students training for leadership in different fields as well as drama. More advanced forms of dramatic expression studied; creative abilities in interpretation, writing, acting, and stagecraft developed in relation to various subjects and activities conducted through individual research projects, group discussion and participation. Original work encouraged. Prerequisite: A fundamental drama course.
Year course (3-3) (Offered in 1941-42 and alternate years)
- 156A-156B Advanced Dramatic Production** **Jones**
 The study of more difficult dramatic types and periods in the production of poetic and prose literature of different countries. Arrangement, organization, creation, direction and presentation of class room, recreational and other forms of performances. Practical participation and demonstration. A course designed for students majoring in other subjects as well as the theater arts.
Year course (3-3) (Offered in 1942-43 and alternate years)
- 157A-B Radio Production** **Jones, Swanson**
 Preparation and production of radio plays and various types of radio material.
Fall and Spring (3-3)
- 163A Rhythm, Pantomime and Choric Verse** **Jones**
 A course combining bodily movement with group speaking. Presents the fundamentals of rhythm and pantomime in different forms of dramatic expression.
Spring (3) (Offered in 1941-42 and alternate years)
- 163B Advanced Rhythm, Pantomime and Choric Verse** **Jones**
 Continuation of above.
Spring (3) (Offered in 1942-43 and alternate years)

175 Major Speech Disorders

Pfaff

Clinical survey of newest methods of speech correction with special emphasis given to stammering and cleft-palate speech. One of required courses for Special Corrective Credential.

Spring (3)

ZOOLOGY

Lower division preparation for the liberal arts major in zoology: Zoology 1A, 1B, and high school chemistry or Chemistry 1A-1B. Recommended: German or French, Botany 2A, 2B, 4.

Liberal arts major in zoology: (1) At least a C average in upper division major courses. (2) Twenty-four units of upper division courses in zoology or eighteen in the major subject and six in related courses in botany, chemistry, physics, physiology or bacteriology.

Students preparing to teach science in the junior high school should try to include courses in zoology, botany, physiology, bacteriology, physics, chemistry (at least high school chemistry). Courses designed to help the student get acquainted with wild life of the region should be included. Recommended: Botany 4, 104, 102; Zoology 112, 113A, B, C, D, 121.

LOWER DIVISION COURSES

1A General

Harwood and Engler

An introduction to animal biology dealing with structure, functions, and evolution of animal life. Laboratory work supplementing the lectures and based on the study and observation of living and preserved material (frogs and invertebrates). Valuable to the general student as well as to the biology specialist, acquainting him with the fundamental facts and theories of biology as they pertain to animal life. Two lectures or recitations and six hours of laboratory per week. Students who have credit for Biology 10A-10B receive no credit for Zoo. 1A but receive credit for Zoo. 1B.

Fall (4)

1B General

Harwood and Engler

A continuation of 1A. The structure, relationships, and classification of the chordates. Two lectures and six hours of laboratory per week. Prerequisite: Zoology 1A or Biology 10B.

Spring (4)

20 Anatomy and Physiology

Crouch

An elementary course in human anatomy and physiology. Prerequisite: High school biology, or Biology 1 or 10A or Zoology 1A. Lectures three hours per week.

Fall or Spring (3)

UPPER DIVISION COURSES

100 Embryology

Johnson

The development of vertebrates as illustrated by the frog, chick, and pig. Three hours of laboratory and three hours of lecture and quiz per week. Prerequisite: Zoology 1B or Biology 10B.

Spring (4)

100D Microscopic Technique

Introduction to methods of preparation of tissues for microscopic study. Three hours of laboratory per week. Prerequisite: elementary chemistry.
Spring (1)

101 Cellular Physiology

Darsie

A study of the vital activities of protoplasm, stressing the various physiochemical relationships involved. Laboratory study of both plant and animal material will serve as an introduction to the methods of modern experimental biology. Two hours of lecture and six hours of laboratory per week. Prerequisite: One year of Life Science in college and three units of college chemistry. Additional training in chemistry and physics is desirable.

Fall (4) (Offered in 1942-43 and in alternate years)

106 Comparative Anatomy of the Vertebrates

Crouch

Dissection, study and comparison of organ systems of typical vertebrates. Two hours per week of lecture and six hours of laboratory. Prerequisite: Zoology 1B or Biology 10B.

Fall (4)

108 Human Anatomy

Crouch

A study of human structure through the use of models, prepared dissections and microscopic slides. Prerequisite: high school biology, Biology 10A, 1, or Zoology 1A. Two hours of lecture and three hours of laboratory per week. Required of prenursing students. Not open to premedical students.

Spring (3)

112 Marine Invertebrates

Johnson

Identification and study of behavior and life histories of invertebrates of the San Diego region. Frequent collecting trips to the beaches required. Prerequisite: Zoology 1A or Biology 10B. One hour of lecture and six hours of laboratory or field work per week.

Fall (3) (Offered in 1941-42 and alternate years)

113A Taxonomy and Natural History of the Mammals

Harwood and Engler

Frequent field trips and the identification of museum material. Three hours of laboratory per week.

Spring (1) (Offered in 1942-43 and alternate years)

113B Ornithology

Crouch

The study and identification of birds, especially those of the Pacific Coast and the San Diego region. One hour of lecture and six hours per week of laboratory, or field excursions. Prerequisite: Zoology 1B or Biology 10B.

Spring (3) (Offered in 1942-43 and alternate years)

113C Field Study of Birds

Crouch

The study and identification of the birds of the San Diego region. Three hours of laboratory or field work per week.

Spring (1) (Offered in 1941-42 and alternate years)

113D Natural History of Fishes

Harwood

Lectures, laboratory, and field work to acquaint the student with the groups of fishes, their habits and economic importance.

Fall (1) (Offered in 1942-43 and alternate years)

114A Genetics

Harwood

General introductory course designed to acquaint the student with the fundamental principles of heredity and variation. Special attention given to the Mendelian interpretations of the facts of inheritance. Two lectures per week.

Fall (2)

114B Evolution

The development of theories of evolution. Two lectures or discussion periods per week.

Spring (2) (Not offered in 1942-43)

121 Entomology

Harwood

The classification, life history, structure, and physiology of insects. Prerequisite: Zoology 1A or Biology 10B. Two hours of lecture and six hours of laboratory per week.

Spring (4)

126 Medical Entomology

Harwood

The role of insects and other arthropods in transmission and causation of human diseases. Three hours of laboratory and one hour of lecture per week. Prerequisite: Zoology 1A or Biology 10B.

Fall (2) (Offered in 1941-42 and alternate years)

130 Readings in Biology

Harwood

Readings from a suggested bibliography with informal class discussion of topics. Subjects discussed will include history of biology, biological principles, ecology, economic zoology, zoogeography, breeding habits, animal behavior.

Spring (2) (Offered in 1941-42 and alternate years)

199 Special Study

The Staff

Work other than is outlined in the above courses. Admission only by consent of the instructor with whom the work is to be done. Credit and hours to be arranged in each case. Open to students who have completed at least fifteen units of Zoology with a grade of A or B.

Fall and Spring (1 or 2)

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SAN DIEGO STATE COLLEGE BULLETIN

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BULLETIN AND ANNOUNCEMENT OF COURSES

VOLUME 30
NUMBER 2
JUNE, 1942

THE JOURNAL OF THE
FAY B. H. H. H.
UNIVERSITY OF ILLINOIS

SAN DIEGO STATE COLLEGE
SAN DIEGO, CALIFORNIA

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SACRAMENTO, 1942 GEORGE H. MOORE, STATE PRINTER



ADDENDUM

NEW REGULATIONS PERTAINING TO THE NATIONAL EMERGENCY

Since this Bulletin has gone to press a number of regulations have been adopted in the interests of meeting the present national emergency. Students are therefore urged to note the following statements.

Reduction of Credit Required for the Degree. The minimum of 124 semester units required for the A.B. degree has been reduced to 120 semester units. Attention is called to the fact that this regulation was adopted after the program outlines on pages 34 to 64 were formulated. Students are therefore urged to discuss the necessary adjustments in course requirements with an adviser specifically designated for the field concerned.

Credit Granted for Military Service. Six units of elective credit will be granted to students who have enlisted in the armed services of this country upon the completion of the prescribed basic training program. Documentary evidence bearing the signature of the proper commanding officer must be filed before credit will be accorded to the student.

Nine additional units of credit will be granted to students who can document the fact that they have completed officer's training, have been granted a commission, and have been assigned to active military duty.

Requirements for Degree May Be Completed in Three Years. Although no reduction in course requirements or standards of work are contemplated, provision has been made whereby students may complete what normally constituted a four-year program in three years. Students may secure further information upon this point by addressing inquiries to the Registrar's Office.

Deferment of Military Service Possible for College Students. The U. S. Navy and Marine Corps have made arrangements whereby qualified students may enlist in the reserve and receive deferment from active military duty until they have completed college courses varying in length from 2-4 years. The Selective Service Administration has recognized a shortage of trained men in a number of occupations vital to national security. Selective Service Boards have therefore been empowered to defer college men from military service with the idea that they complete their training in these designated fields. Further particulars may be secured from the Registrar's Office.

Civilian Defense Courses Added. A number of courses have been added which have definite implications upon the Civilian Defense Program. A list of these courses may be secured from the Registrar's Office.

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JULY

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DECEMBER

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CALENDAR 1942-1943

SUMMER SESSION, 1942.

Term I, six weeks, June 29-August 7.

Term II, three weeks, August 10-August 28.

Term III, one week, August 31-September 4.

FALL SEMESTER, 1942-1943.

- | | |
|------------------|--|
| September 1 | Applications for admission must be filed on or before this date. |
| September 8 | Students who have not received notice that they have been granted admission by this date must delay registration until September 19. |
| September 10, 11 | Entrance examinations for all entering Freshmen who have not previously taken these examinations. No Freshman will be granted admission until these examinations have been taken. |
| September 12 | First day of the Orientation Program. All entering Freshmen must appear on the campus for this program, beginning at 8 a.m. and lasting throughout the entire day. |
| September 14 | <p>Second day of the Orientation Program. All entering students are required to attend the program on this day, beginning at 8 a.m. and lasting throughout the entire day.</p> <div style="margin-left: 100px;"> <p>8:30 am.-12:00 m. Fundamentals Tests — Required for admission to Upper Division Teacher Training. Should be taken at the end of the first semester of the Freshman year where possible.</p> <p>1:00-2:00 p.m. College Aptitude Test for students entering with advanced standing.</p> </div> |
| September 15 | Registration and payment of fees. |
| September 16 | Instruction begins. Late registration fee becomes effective. |
| November 11 | Armistice Day Holiday. |
| November 26, 27 | Thanksgiving Recess. |
| December 17 | Last day before Christmas Recess begins. |

January 4	Classwork resumes.
January 27- February 3	Semester Examinations.

SPRING SEMESTER, 1942-1943.

January 25	Applications for admission must be filed on or before this date.
February 1	Students who have not received notice that they have been granted admission by this date must delay registration until February 13.
February 6	First day of the Orientation Program. All entering Freshmen must appear on the campus for this program, beginning at 8 a.m. and lasting throughout the entire day.
February 8	Second day of the Orientation Program. All entering students are required to attend the program on this day, beginning at 8 a.m. and lasting throughout the entire day. 8:30 a.m.-12:00 m. Fundamentals Tests — Required for admission to Upper Division Teacher Training. Should be taken at the end of the first semester of the Freshman year where possible. 1:00 2:00 p.m. College Aptitude Test for students entering with advanced standing.
February 9	Registration and payment of fees.
February 10	Instruction begins. Late registration fee becomes effective.
February 12	Lincoln's Birthday Holiday.
February 22	Washington's Birthday Holiday.
April 19-23	Spring Recess.
May 2	Founder's Day.
May 31	Memorial Day Holiday.
June 10-17	Semester Examinations.
June 18	Annual Commencement.

SUMMER SESSION, 1943.

Term I,	June 28-August 6.
Term II,	August 9-August 27.
Term III,	August 30-September 3.

THE COLLEGE

Historical Sketch

The growth of the San Diego State College has involved three stages of development. It was known as the State Normal School of San Diego when it was established by legislative enactment in 1897 and when it opened its doors in 1898.

The second cycle of its growth began in 1921 when the legislature converted all California normal schools into State teachers colleges and when the San Diego Junior College was merged with the teachers college. Lower division courses were then available within a single institution for the various types of students in the community. From 1927 to 1934, the junior college relationship was discontinued, and the teachers college carried the lower division offerings. These offerings were enriched when the junior college arrangements were resumed in September, 1934.

The four-year curricula, leading to an A.B. degree with a major in education, were established in 1923. The State Board of Education, at that time and subsequently, authorized the following teaching credentials, which are to be granted in connection with the degree: general elementary, general junior high school, general junior high-general elementary; special secondary in art, business education, music, and physical education, and speech arts. Presecondary curricula were first authorized by the State Board of Education in 1928 and major subjects were approved from time to time until a total of sixteen was finally reached: art, chemistry, commerce, economics, education, English, geography, history, mathematics, music, physical science, physics, Romance languages, social science, speech arts and zoology. A general major has been created which provides for study in three associated fields.

In September, 1935, the college entered upon its third phase when it became, by legislative enactment, the San Diego State College. This change in status permitted the college to drop the requirement in education courses from the curricula previously known as presecondary and to convert them into liberal arts curricula leading to the A.B. degree with any one of the sixteen majors enumerated above.

Location and Environment

Renowned as a winter resort with a mild but invigorating climate, San Diego has become equally famous for its cool summers. High cultural standards in art, music, literature and science create a stimulating environment for a college. Many of these advantages are to be found in the heritage resulting from the expositions of 1915-16 and 1935-36, including the buildings themselves, which portray the best types of Spanish colonial art and architecture. Housed in these buildings are the Fine Arts Gallery, exhibits in anthropology, natural history, and American archaeology which are in many respects unsurpassed. The outdoor organ, the Ford Bowl, and the horticultural gardens make Balboa

Park, in which all these facilities are located, world renowned. The Scripps Institute of Oceanography, operated by the University of California at La Jolla, gives opportunity for important cooperation in the biological sciences.

Buildings and Equipment

On February 1, 1931, the college was moved to the new campus, located one mile north of the city's principal east-west boulevard, El Cajon Avenue. The buildings are of Spanish-Moorish architecture which is well suited to the landscape and climate of this region. They include the Academic Building (which houses lecture halls, classrooms and administrative offices); the Science Building; the Library, the Little Theater; the Music Building; the Campus Elementary School; Scripps Cottage (a social clubhouse for women students); the Cafe and Book Store; and the Physical Education Building (a structure with adequate facilities for both men and women). The gymnasium contains a very fine basketball floor with stands that will accommodate 1500 spectators. A fine concrete stadium, constructed in a natural site, has a seating capacity that is adequate for present needs. Ultimately it will accommodate approximately 45,000 people.

Facilities for the Training of Teachers

The college maintains a modern elementary school on the campus where it has developed an extensive program for the education of elementary school teachers. The classroom-laboratory plan which calls for the use of work-rooms, the library, and shops, affords unusual opportunities for the induction of students into teaching.

By arrangement with the San Diego City Schools, practice teaching is provided in the Euclid elementary school for one-half day throughout a semester. A somewhat similar arrangement exists at the Woodrow Wilson Junior High School for students who are preparing to teach junior high and special secondary school subjects. Students preparing to teach only special secondary school subjects may be assigned to one of the senior high schools.

The Library

The library facilities of this college are noteworthy for an institution of its size. The library consists of well over 80,000 volumes selected to meet the requirements of a modern educational institution. Seven professionally trained librarians are available to render assistance to students in their reading and reference work.

The Campus Elementary School Library, representing a collection of 11,000 volumes, possesses equipment and building facilities that are unique.

Living Accommodations

The college does not maintain dormitories since nearly all of the students live with parents or guardians. Living arrangements for students whose homes are not in San Diego or within commuting distance are made through the offices of the Dean of Women or the Dean of Men. All women students are urged to live in the residence hall adjoining the

campus. Careful consideration is given to study conditions, healthful living and adequate social opportunities. Room and board may be secured for as little as \$160.00 per semester, payable in four installments. Opportunities to reduce this figure by working a few hours each week are occasionally available. Reservations should be made in advance through the Office of the Dean of Women. Where students find other accommodations more desirable, written permission from parents must be secured and filed with the Dean of Women.

Student Life

A rich field of extra-curricular activities is available to the student throughout his college life. The student is urged to select these activities carefully in order that he may profit by these extra-class experiences without lowering his standards of scholarship. The *Student Handbook*, available at the time of registration, gives information concerning activities which include organizations in every department of the college, and opportunities for individual and group experience in the social, athletic, fraternal, religious and governmental life of the campus.

Student Health Service

The Health Department is maintained for the protection and care of student health. A complete physical examination is required of each student upon admission to college. Careful attention is given to cases undergoing remedial treatment or to cases in which a modification of study load or in the amount of participation in physical activities seem advisable.

A representative of the Health Department is available throughout the entire day for consultation and emergency treatment. Students who have been absent because of illness should receive clearance from the Health Department before returning to classes.

Placement Service

A Placement Office is maintained by the college, which serves as a clearing house for part time and full time jobs. Employers notify this office of available openings in their organizations, and also turn to the office for information concerning graduates or nongraduates whom they are considering for employment.

Included in the services of the office are the listing of part time jobs of all types available, including opportunities to work for board and room, N. Y. A., teacher placements, and full time jobs in commerce and industry.

This service is free to students, who are invited to arrange for interviews with members of the placement staff if in need of assistance in finding work. Students who know of jobs in which they are not themselves interested are encouraged to notify the office of such vacancies.

The Placement Secretary, or one of the following persons, should be seen or called regarding vacancies or work applications:

Director of Teacher Placement.

Director of Commercial and Industrial Placement.

N. Y. A. Secretary.

Alumni Association

The college has an active Alumni Association. Since its reorganization in March, 1921, the association has steadily gained in membership. An important event is the annual Homecoming; other meetings take place on dates of important athletic contests. The association also sponsors the organization of Aztec clubs in various communities. Information concerning the association may be obtained by writing the secretary in care of the college.

FEES AND EXPENSES

Probable Expenses for One Semester

An estimate of the expense of attendance for one semester is given below. No estimate is made as to the cost of clothing, or other personal items, since these figures vary with the demands of the individual. Laboratory fees are additional.

A Partial Estimate of Expenses

One Semester

	<i>Minimum</i>	<i>Maximum</i>
Fees and Deposits_____	\$ 20.00	\$ 27.50
Books _____	12.00	18.00
Board and Room_____	125.00	175.00
Incidentals:		
Transportation _____	10.00	20.00
Lunches (daily in cafe)_____	35.00	50.00
Organizations:		
Fraternity	<i>Average</i>	
Initiation and pin_____	\$16.50	\$7.50
Dues and Assessments_____	5.50	
Sorority		
Initiation and pin_____	16.00	16.75
Dues and Assessments_____	8.00	
Miscellaneous _____		5.00

Before enrolling in college, the student should possess sufficient resources to meet the minimum expenses for one semester. A limited amount of clerical work in offices and in the library may be offered from time to time, but ordinarily it is not sufficiently remunerative to reduce expenses materially.

¹ List of Fees and Deposits (Subject to Revision)

ENROLLMENT FEES AND DEPOSITS

PAYABLE AT TIME OF REGISTRATION

By all students:

Tuition:

² Resident students (regardless of number of units taken) ----- \$6.50

Limited students (5 units or less) per unit ----- 2.50

Nonresident students—1st semester ----- 75.00

2d and subsequent semesters ----- 37.50

³ Student activity fees ----- 6.00

Associated Students ----- \$5.50

Associated men students or associated women students ----- .50

General service deposit ----- 3.00

By new students only (in addition to the above)

Personnel examinations ----- 2.00

DEPARTMENTAL FEES

PAYABLE DURING SIXTH WEEK OF SEMESTER

Library fee (paid by all students) ----- \$1.00

In addition, fees ranging from 50¢ to \$7.50 per course are charged for certain courses, a complete list of these being issued at registration time. A penalty of \$1.00 is charged for failure to pay at the required time.

MISCELLANEOUS FEES AND DEPOSITS

DEPOSITS PAYABLE BEFORE LABORATORY WORK IS STARTED

Chemistry ----- \$5.00

Geology 21A-21B ----- 1.00

Physics ----- 2.00

FEES PAYABLE WHEN SERVICE IS RENDERED

Change of program ----- .50

College Bulletin (free to prospective students) ----- .20

Duplicate library card ----- .10

Duplicate registration book ----- .10

⁴ Evaluation of record for advanced standing ----- 2.00

Fundamentals test ----- .50

Late filing of registration book ----- 1.00

Late registration ----- 1.00

Locker ----- .25

Special examination ----- .50

⁵ Transcript of record (1st copy free) ----- .50

¹ Auditors pay same fees as students enrolled for credit.

² See page 18 for definition of residence for fee-paying purposes.

³ Not obligatory.

⁴ Paid by all students entering with advanced standing.

⁵ The 50-cent fee must accompany each application for a transcript of record. Ten cents will be charged for each duplicate of this record which accompanies the original.

GRADUATION FEES

State Teaching Credentials (each credential) -----	\$3.00
Elementary	
Elementary and Junior High	
Special secondary	
School administration	

The credential fee is collected through the college by post office money order made payable to the State Department of Education. This fee will be \$5.00 for students who have not resided in California one year previous to the date of their application.

ADMISSION AND REGISTRATION

General Admission Requirements

High school graduates and other applicants possessing equivalent preparation may be admitted to this college upon evidence of fitness to profit by college instruction, such fitness to be shown by previous scholastic records, by evidence of good moral character and personal qualifications, and by satisfactory scores on tests which the college may require.

Admission of High School Graduates Candidates for admission may demonstrate their qualifications by satisfying two requirements: (1) All applicants must demonstrate readiness for college instruction by making satisfactory scores on such tests as the college may designate, and (2) they must present satisfactory evidence of previous scholarship.

Students will be granted *regular* status if they have earned recommended grades* in not less than 16 courses of one semester's duration in English, Social Science, Foreign Language, Mathematics, Natural Science, and related fields, during the tenth, eleventh, and twelfth years in high school. *Regular* students may enroll in either a degree curriculum or in one of the two-year curricula.

Students will be provisionally granted *regular* status if they have earned recommended grades* in not less than 12 courses of one semester's duration in English, Social Science, Foreign Language, Mathematics, Natural Science, and related fields, during the tenth, eleventh, and twelfth years in high school. If at the end of one semester they have maintained a scholarship average of C or better in not less than 12 units of work, they will retain their *regular* status. Failing to do this, they will be disqualified.

Students who do not qualify for *regular* status must enroll in one of the two-year curricula. They must have earned recommended grades* in at least 12 courses of one semester's duration, completed during the tenth, eleventh, and twelfth years in high school. Individuals who fail to meet this standard may be admitted to the two-year curricula if their achievement on the entrance examinations indicates probable success in these courses.

Admission by Examination Certificates of successful examination before the College Entrance Examination Board will be accepted when candidates cannot meet the above scholarship requirements.

Admission with Advanced Standing Credit earned in recognized institutions of collegiate grade will be evaluated and advanced standing allowed on the basis of the evidence submitted. Credit toward the fulfillment of graduation requirements will be allowed only in so far as the student has met the standards and requirements of this institution.

* Grades of A or B or the equivalent.

Applicants for advanced standing must show an average grade of *C* or better in the last college attended and in all college work previously undertaken to qualify for admission to regular status. No applicant may disregard his collegiate record and apply for admission with freshman standing.

Not more than sixty-four semester hours of junior college work may be allowed for credit.

Students who seek to gain admission with advanced standing must furnish complete transcripts of record for all work attempted beyond the eighth grade. A two dollar evaluation deposit must accompany the application for admission. This deposit will be refunded if the student enrolls at the next regular registration period.

Admission of Special Students. Applicants over twenty-one years of age, who are not high school graduates and who do not possess the equivalent preparation but who receive a satisfactory score on a standard college aptitude test, may be granted provisional admission as special students. Such persons may be granted full matriculation only upon the removal of all deficiencies and upon the completion of one full semester of satisfactory college work in the chosen curriculum.

Registration

Registration for the fall semester of 1942-43 will take place on September 15, and for the spring semester on February 9. Candidates for admission may obtain an application blank from the Registrar which must be filed, with complete transcripts of record, two weeks before registration. *See calendar on page 7.*

The college year is divided into fall and spring semesters of eighteen weeks each, followed by a summer session consisting of terms of six and three weeks, respectively. Students may enter at the beginning of either semester or at the beginning of either of the summer terms.

The summer session meets the needs of regular students who wish to gain credit toward the bachelor's degree, of teachers in service, and of students who wish to secure supplemental credit or to shorten the time for completion of their college course.

Tests Required at Registration Time and Later

1. A physical examination is required of all students upon entering the college. Appointments for this examination are made during the orientation program.
2. All entering students are required to take the College Aptitude Test. Exceptions may be made for students who register for five units of work or less, for former graduates of this college, and for graduates of approved four-year colleges.
3. All entering students who are not transferring with advanced standing must take a High School Achievement Examination, a Reading Test, and a standard English Examination.
4. An English Examination is required of all entering students. English L1A or L1AA must be taken by all students whose tests indicate that they are not qualified for English 1B, even though they may not intend

to enroll in English 1B. Exceptions may be made for students transferring credit in English from other colleges.

5. Passing the Fundamentals Test in reading, spelling, arithmetic and handwriting, and a Speech Test are prerequisites for admission to upper division courses in teacher training curricula. Students should take these tests at the beginning of the second semester of their freshman year in order that they may have sufficient time to make up deficiencies, if any exist, before applying for admission to the upper division of teacher training curricula. Exceptions may be made for former graduates of this or other California State teacher training institutions who have been teachers in service.

Late Registration

A student who registers after the first week of the semester is subject to a limitation of his program. A fee of one dollar must be paid for registration after the regular registration day and the instructor's approval must be secured for each course entered after the first week of the semester.

Changes in Registration

Petitions for changes in program may be secured at the Registrar's office. A statement regarding withdrawals from class is to be found on page 20.

Auditors

Auditors register in the usual way and pay the same fees as those who are registered for credit.

Loans and Scholarships

Scholarships for both men and women have been made available through the efforts of alumni, and civic organizations. Superiority in scholarship and worthiness from the point of view of need are the standards upon which selection is based. Scholarship aid is therefore restricted for the most part to students who have completed the lower division of the college.

Both long and short term loans are available to students who have been in attendance for at least one year and who have given evidence of ability to do satisfactory college work. Application for loans is made to the Committee on Loans and Scholarships through the offices of the Dean of Men and Dean of Women.

GENERAL REGULATIONS

Officers for Consultation

Concerning the housing and living arrangements of students, personal problems, etc.—The Dean of Women; The Dean of Men.

Concerning the scheduling and arrangement for all student social affairs—The Dean of Women.

Concerning study lists and personal problems of *two-year* students—Director of Guidance for Two-Year Students.

Concerning admission, program of studies, credits, degree requirements, etc.—The Registrar; The Dean of Liberal Arts; The Dean of Education.

Concerning health and physical condition—The Health Department.

Concerning student-body affairs, student-body policy—The executive officers of the student body, The Dean of Liberal Arts.

Concerning appointments to teaching positions and other types of full and part-time employment—The Placement Secretary.

Concerning admission to Upper Division Teacher Training Curriculum, practice teaching, credential requirements, etc.—The Dean of Education.

Concerning use of the buildings—The Dean of Women; The Dean of Men.

Concerning entrance requirements and offerings at other institutions—The Registrar; The Dean of Liberal Arts; The Dean of Education.

Residence Status

Students who are not classified as residents of California are required to pay a Nonresident tuition fee amounting to \$75 for the first semester of attendance in a State college in California and \$37.50 for each semester of attendance thereafter. The fact that a student lives with (or has for many years lived with and been supported by) a relative or friend who is a bona fide resident and taxpayer in this State does not, according to the law, make him a resident of California. The law stipulates that a minor child assumes the residence of his father during his life; and after the father's death, the minor assumes the residence of the mother. In case of legal separation or divorce, the minor's residence must be determined by court action which designates who shall have custody of the minor.

Transfer of guardianship does not alter residence status.

Students may declare their own residence when they have reached 21 years of age.

Classification

Full time students are those students who have complied with the requirements for admission and are registered in more than 5 units of work. Full-time students are expected to carry 12 units of work unless excused.

Limited students are partial course students who, for adequate reasons, have been permitted to register for 5 units of work or fewer.

Adult special students are mature students who have not satisfied all entrance requirements but who are registered for such courses as their ability and preparation qualify them to pursue. Special students may also be limited students.

Regular students are those who are qualified to enroll in curricula leading to the Bachelor of Arts degree.

Two-year students are those who have failed to attain regular status because of deficiencies in high school scholarship, and who have been permitted to enroll in an adjustive curriculum. These students are not permitted to enroll without restrictions in courses applying toward the Bachelor of Arts degree until they have earned regular status by demonstrating satisfactory scholarship.

Class. For convenience in administration, students who have completed 0 to 29 units of work are classified as freshmen; 30 to 59 units as sophomores; 60 to 89 units as juniors; and more than 90 units as seniors.

Scholarship, Grades, and Grade Points

The following grades are used in reporting the standing of students at the end of each semester: *A*, excellent; *B*, good; *C*, fair; *D*, passed; *E*, conditioned; *F*, failed; *I*, incomplete, and *W*, withdrawn.

The grade *E* is used to record work which is of low order but which may be made passable. If by the close of the next semester the work has been satisfactorily completed the grade *E* is changed to a *D*; otherwise it is changed automatically to an *F*. The grade *I* is used to record work of higher order but which is incomplete for some acceptable reason. Ordinarily, to change an *I* to another grade, the work must be completed within a year.

Grade points are assigned as follows: Grade *A*, 3 points per unit; *B*, 2 points per unit; *C*, 1 point per unit; *D*, no points; *E*, minus 1 point per unit; *F*, minus 1 point per unit. The number of grade points a student has earned in a subject is determined by multiplying the number of points he has received by the number of units allowed.

The grade point average is determined by taking the algebraic sum of the grade points earned and dividing by the number of units attempted. Subjects in which the student receives an *I* or a *W* grade are disregarded in computing grade point averages.

A student must earn at least a *C* average in all work undertaken at the college to qualify for a certificate in any curriculum, a diploma of graduation, or a transcript of record with recommendation to another collegiate institution.

Units of Work and Study-Lists Limits

A unit of credit represents approximately three hours of actual work per week throughout one semester. It represents one hour of lecture or recitation combined with two hours of preparation, or in the case of laboratory credit, three hours of laboratory or field work.

Sixteen units in addition to physical education (16½ units) constitute a normal semester's program for all students. Entering students are not ordinarily permitted to enroll for more than 16 units,* and all other students are limited to 18 units.*

Even though a student has carried a heavier program, he may not ordinarily apply more than 16 units* toward graduation. Certain exceptions to this rule exist where the student has successfully carried at least 12 units during the preceding semester: 1) 17 units* will be credited toward graduation if the student has maintained an average of not less than 1.5 grade points during that semester, and 2) 18 units* will be credited if a grade point average of at least 2.0 has been maintained. Any course in which a student received a passing grade may be used in the satisfaction of course requirements, even though the credit for such a course is in excess of the units credited for graduation.

Credit for a program that does not conform to the above regulations can be obtained only through a petition addressed to the Scholarship Committee. No student will be permitted to register for less than 12 units without the approval of the Dean of Liberal Arts or the Dean of Education.

Probation and Disqualification

Probation Any student whose scholarship record shows a cumulative deficit of 12 or more grade points below a *C* average for all work undertaken in the college will be placed on probation. A limited student will be placed on probation if his cumulative deficit below a *C* average equals or exceeds the average number of units carried per semester. Probationary status may be continued provided that the student does not add further toward his grade point deficiency.

Disqualification Any probational student whose scholarship falls below an average grade of *C* in any single semester is disqualified for further attendance at the college. A scholarship record below a *D* average for any single semester also disqualifies a student.

A disqualified student may be reinstated after an interval of one semester for reasons satisfactory to the Executive Committee. All applications for reinstatement must be in writing.

Withdrawals from Class

A student may obtain forms for withdrawal from class at the Registrar's Office. If a student withdraws from class for acceptable reasons during the first twelve weeks of a semester, a grade of *W* will be recorded upon his permanent record for those classes which he has dropped.

* In addition to required physical education activity courses.

If he withdraws during the last half of that twelve weeks period a grade representing the level of work maintained up to the time of withdrawal will be recorded upon a supplementary record. If he withdraws from class during the last six weeks of the semester either an *I* or an *F* will be recorded upon his permanent record.

Students who withdraw from all classes during the course of a semester must petition the Executive Committee at such time as they seek readmission to the college.

Transcripts of Record

Students may secure one transcript of record without fee. Thereafter, requests for a transcript should be accompanied by a transcript fee of fifty cents. Once a student has matriculated in this institution, transcripts of record from other schools will not be returned or copies of them made. Transcripts in the possession of students are to be regarded as unofficial records.

Eligibility for Practice Teaching

No student shall be eligible for practice teaching (Education 116) who has not completed 75 units, been admitted to Teacher Training, and whose entire record, and also his record for the preceding semester, does not average at least a *C* grade.

The Honors Group

All students who at the end of the Sophomore year have attained a grade-point average of 2.5, and such others as have attained a high average in the department in which their Major is selected, and who have received the recommendation of that department and the consent of the Committee on Honors, may if they so elect, constitute an honors group, for special treatment in their Major subject.

Such students, so far as the facilities of the department and the best interests of the students under its charge allow, shall be treated as befits their individual needs and as their individual capacities warrant. They shall be eligible to enroll in honors or special study courses, although credit in such courses shall be limited to 5 units a semester. They shall not be held to regular attendance in the established courses of their departments if, in the opinion of the instructor, the course requirements can be met through special assignments and examinations or by satisfactory performance in the regular examinations in the course. With the consent of the major department, requirements concerning minors and specific courses or sequences in the major may be set aside. Each honor student shall be assigned to a member of his Major department for advice and direction.

Students in the honors group who fail to take advantage of the opportunities there offered may at the end of any semester be transferred by the department to the general course. Students in the general course who show unusual capacity, upon recommendation of the department and the Committee on Honors, may at the end of any semester, be transferred to the honors group if such transfer appears practicable.

Students who wish to apply for entrance in the Honors Group may do so by filling out cards to be obtained from their major departments. The applications should be filed with the chairman of the major department not later than a week after registration opens. Units earned by students doing individual study under this plan will be recorded under the symbol 166 and will be subject to the formulated rules dealing with limitations of student load.

The Degree with Honors

Honors at graduation shall be granted to those students only who have completed the major with distinction, and who have a general record satisfactory to the Committee on Honors.

Before Commencement each department shall determine, by such means as it may deem best (for example, by means of a comprehensive examination) which students it will recommend for honors at graduation, and report its recommendation to the Committee on Honors.

The Committee on Honors will consider departmental recommendation, confer with the several departments about doubtful cases, and transmit to the faculty its recommendations concerning the award of Honors.

Examinations

No final examinations shall be given to individual students before the regular time. Any student who finds it impossible to take a final examination on the date scheduled must make arrangements with the instructor to have an incomplete grade reported and must take the deferred final examination not later than the end of the second semester following that in which the incomplete was given. No exceptions shall be made to this rule without the approval of an academic dean and the instructor concerned.

All final examinations shall be written in Official Examination Books or other forms which shall be furnished by the college and distributed by the instructor at the beginning of the examination period. No books or papers of any kind shall be brought into the examination room, except by special order of the instructor.

Students shall pay a special examination fee of fifty cents at the business office for every special examination given. The instructor shall give such examination only when the student presents a receipt showing that the fee has been paid.

Extension Courses

An extension program covering a wide range of offerings is made available each semester. Members of the regular college faculty and others expert in special fields instruct extension classes. The extension program is designed to serve the needs of San Diego and neighboring communities for courses on the college level that are not available on the campus, or that should be offered at times and places more convenient to special groups. Extension courses are considered the equivalent of campus courses and the amount of credit available to any one student in one semester through extension courses or a combination of campus and extension courses is subject to the same study-load limitations that apply

to students regularly enrolled for campus courses. Fees for extension courses vary somewhat with the place where the instruction is offered, but will not exceed \$6.00 per unit for the year 1942-43.

Information concerning extension offerings is included in the special bulletin of extension courses which may be obtained on application to the Director of Extension Service.

The amount of credit for extension and correspondence courses acceptable in fulfillment of the requirements for the Bachelor of Arts degree will depend upon the nature of the courses, the quality of the work done, and the students preparation for work in the field of the course. The college reserves the right to limit credit to such courses as have been approved, and the total of such acceptable credit to twelve units.

THE BACHELOR OF ARTS DEGREE

General Requirements for the Bachelor of Arts Degree

San Diego State College offers the following types of curricula leading to the A.B. Degree: (1) the curricula leading to the California teaching credentials, and (2) the Liberal Arts curricula. With slight variations in definition, many of the basic requirements are the same.

A minimum of 120 units of college work, representing a four-year course, is required for the Bachelor of Arts degree. At least 30 units must be earned in this college, and not less than 24 of these residence units must ordinarily be taken with the rank of senior. Not fewer than 12 units of this work must be completed during a single semester; or in lieu of this at least 16 units must be completed in not less than two consecutive summer sessions. At least a *C* average in scholarship must be maintained in the major and in all work applied toward the degree.

LOWER DIVISION

Subject Matter Requirements in the Lower Division

Physical Education	2 units
Health Education 1 or 2	2 units
English	6 units
Psychology	3 units
*Foreign Language	15 units

Mathematics A and B, 4 units, or high school algebra and geometry

Social Sciences 14 units

Natural Sciences 14 units

*Year-course in foreign language or in mathematics, or in philosophy (This year-course is an additional requirement to those listed above) 6 units

Electives to make total of 60 units.¹

Explanation of Lower Division Requirements

English This requirement may be satisfied either in the freshman year or in the sophomore year. Courses are to be chosen from the following: English L1A or L1AA, 1B or 1C, 2A, 2B, 2C, 2D, 2E, 2F, 50A, 50B, 52A, 52B, 56A, 56B.

Psychology Psychology 1A.

* Not required in the teacher training curricula.

¹ Electives should include lower division preparation for the major. See pages 73-149. Requirements for the minors may be partially satisfied in the lower division. See page 27.

Foreign Languages At least 15 units in not more than two languages are required in the lower division, except that only 10 units in a modern language are required in the commerce major and no language is required in teacher training. Each year of high school work in a foreign language completed with grades not lower than C will be counted in satisfaction of units of this requirement. Not less than two high school year-courses acceptable in any language.

Social Sciences¹ Fourteen units chosen from two or more departments are required in this field. All students must present credit for Social Science 1A or for an acceptable equivalent.

Additional lower division courses to meet the social science requirement must be chosen from the following list and must include one of the year courses marked with an asterisk: Anthropology 50A-50B,* 54, 55; Economics 1A-1B,* 18A-18B; Geography 2 or 10B; History 4A-4B,* 8A-8B*; Political Science 1A-1B,* 71A-71B*; Social Science 1B; Sociology 50A-50B*.

Two semesters of fourth year high school courses in the fields of history, political science, sociology, and economics taken with grades not lower than C may be used to satisfy three units of the social science requirement. A maximum of two units of the social science requirement may be chosen from upper division courses if high school senior courses have been used to satisfy the requirement, otherwise a maximum of five units may be counted.

Natural Sciences¹ Fourteen units chosen from courses representing each of the following groupings are required:

- (a) Biology 1 or a year course in high school or college biology, botany, physiology or zoology.
- (b) Physical Science 1A or 1B or a year course in high school or college chemistry or physics.
- (c) Additional lower division courses to meet the natural science requirement must come from the following list and must include one of the laboratory courses marked with an asterisk. *High School courses:* a maximum of two years (6 units) of third and fourth year courses in botany, chemistry,* physics,* physiology, zoology and advanced biology taken with grades not lower than C may be used to satisfy the natural science requirement. *College courses:* Astronomy 1, 9, 2; Bacteriology 1,* 6; Biology 1, 10A-10B*; Botany 2A,* 2B,* 4; Chemistry 1A,* 1B,* 2A-2B,* 7-8*; Geography 1 or 3 (only one course may be counted toward requirement); Geology 1A, 1B,* 2A, 2B; Physical Science 1A, 1B; Physics 2A-2B, 3A-3B,* 1A-1B,* 1C-1D,* 54; Physiology 1A, 1C*; Zoology 1A,* 1B,* 20.

Two units of this requirement may be chosen from upper division courses.

Mathematics High school elementary algebra (or Mathematics LA) and high school plane geometry (or Mathematics LB) completed with at least C grades.

Teacher training students should follow carefully the curricular outlines to meet specific course requirements in this field.

Additional Year Course In addition to the foregoing minimum requirements in foreign language and mathematics, 6 units must be chosen from one of the following groups by all except teacher training students.

Modern foreign language: Any two consecutive college courses, or any two consecutive high school year courses.

Latin: Two years of high school courses in Latin.

Mathematics: D, or C, or equivalent, and either 1, 3A, or 8. Students with the Commerce major may take Mathematics D, or equivalent, and Economics 2.

Philosophy: 3A-3B, 5A-5B.

Lower Division Preparation for the Minor See description of requirements for liberal arts minors on page 27 and for teaching minors on page 30.

Lower Division Preparation for the Major See description of requirements for teaching majors on page 30. Specific requirements for the majors in the liberal arts curricula are listed in connection with the descriptive list of courses in each major field (see pages 73-149).

Junior Certificate The junior certificate will be granted on the completion of 60 units and the satisfaction of all lower division requirements.

Limited Electives

A total of not more than 12 units of limited and vocational courses listed below will be counted toward the A.B. degree in Liberal Arts (for limitation in Teacher Training see page 33. Courses in education are included in this list principally because the major emphasis in the liberal arts program is non-professional and non-technical. Art L7, L14A, L65A, L65B; Economics L10A-L10B, L15A, L15B, L16A, L16B, L129, L163; Education, all courses except those listed as available for credit toward a minor (see Education minor on page 27); English L1A, L1AA, L8; Health Education L151; Journalism L53A, L53B, L153A, L153B; Library Science L10; Mathematics LA, LB; Merchandising, all courses; Music, L1A, L2A, L3A, L6A, L7A, L16A-B-C-D, L17A-B-C-D, L18A-B-C-D, L28A-L28B, L116A-B-C-D, L117A-B-C-D, L118A-B-C-D; Physical Education, all courses beyond the requirements specified in the curricular patterns except 30, 51, 170; Secretarial training, all courses. All courses which are offered specifically to students taking two-year completion courses (courses numbered L40 or L45) are classified as limited electives. See definitions of *Two-year students*, page 65.

Specific Upper Division Requirements for the Liberal Arts Curricula

The liberal arts curricula lead to the bachelor of arts degree with majors in art, chemistry, commerce, economics, English, geography, history, mathematics, music, physical science, physics, Romance languages, social science, speech arts, and zoology and qualify for graduate work in these fields in recognized American colleges and universities. Completion of the requirements of these curricula also enables the graduate to satisfy under-graduate requirements for the general secondary credential which, with graduate work, will enable the holder to teach in a senior high school or junior college.

UPPER DIVISION

Subject Matter Requirements

Political Science 101_____	2 units
First minor (minimum in upper division courses)_____	6 units
Second minor (minimum in upper division courses)_____	6 units
Major (upper division courses)_____	24 units

At least 40 units in upper division courses must be completed, 30 of which must be earned after all lower division requirements have been satisfied.

Explanation of Requirements

Political Science 101 Political Science 113 or 175A-175B or History 171A-171B or 173A-173B will be accepted as substitutes for this requirement.

Minor Minors must be established in at least two of the following fields: anthropology, art, botany, chemistry, economics, education, English, foreign language, geography, geology, history, journalism, mathematics, music, philosophy, physics, political science, psychology, sociology, speech arts, and zoology.

A minor consists of at least twelve units of work completed in one of the above fields of study. It is required that at least six of these units must be earned in upper division courses during junior or senior years. The entire requirement for a minor may be met with upper division courses provided these courses have no lower division prerequisites. Prerequisites for each course are listed among the course descriptions on pages 73 to 149.

Minor in Education A student who desires to satisfy the undergraduate requirements for the general secondary teaching credential will minor in education. He should include in his program a major in a subject or field of subjects usually taught in high school and a minor in the field of education. In order to conform to the usual university requirements, his minor should include Education 102A-102B (or Education 130, and Psychology 102), and Education 115A-115B. Consultation with the Dean of Education or the Dean of Liberal Arts is recommended.

Majors The specific requirements for each major are listed at the beginning of each departmental division among the description of courses. (See pages 73 to 149.) The student is advised to choose his major as

early in his college course as practicable so that he may be able to plan his work according to the major requirements. Failure to meet the lower division requirements of the major department before the junior year may make it impossible to satisfy the upper division requirements within the normal period of two years.

Professional and Preprofessional Courses. See pages 50 to 64.

The General Major

The general liberal arts major of 36 upper division units must be chosen from three departments with not more than 15 units from any one department allowed. This comprehensive major may be arranged to include minor requirements.

The general major is planned for students who are preparing for law, journalism, library work, or for any other vocation requiring a background of general training. It is available also to certain students who want a cultural education and who can present satisfactory reasons for not specializing in any field. When the general major is not a part of a four-year curriculum published in the college bulletin the tentative program of the student should be planned in consultation with the Dean of Liberal Arts and approved, revised, or rejected by a committee composed of the chairmen of the departments represented in the major.

Specific Upper Division Requirements for the Teacher Training Curricula

Admission to the Teacher Training Curricula Admission to the college does not imply that the student will be admitted to the teacher training curriculum. No student intending to enroll in the teacher training curriculum may enroll in an upper division course in education before being admitted to teacher training. Any exception to this rule must have the written approval of the Dean of Education. Students who have been in regular attendance at the college should make application for admission to the teacher training curricula during the first semester of their sophomore year. Students who have completed two or more semesters of work in another college, upon transferring to San Diego State College, should make application as soon as they can meet the preliminary requirements. It will be advantageous for transfer students to present themselves for the necessary tests given during the orientation period preceding the enrollment in the college. The preliminary requirements which must be met before making application are:

1. A satisfactory score in a college aptitude test taken at the college. (See college calendar for date of test.)
2. Evidence of satisfactory ability in arithmetic, handwriting, reading and spelling indicated by having passed the fundamentals test. (See college calendar for date of test.)
3. Assurance of correct speech habits and voice control by having satisfactorily completed a course in corrective speech or by having passed a speech test given by the college.
4. Assurance of physical fitness by having passed a prescribed examination given by one of the college physicians.
5. If the student is to be a candidate for one of the special secondary credentials, he must furnish a recommendation from the chairman of that department stating that the student has ability and shows promise of teaching success in his field and that the department looks with favor upon his application.
6. The completion of the first two years or more of a given curriculum, or its equivalent, with a grade point average of 1.2 or better.

After the student has submitted evidence of having met the preliminary requirements in his application for admission to the teacher training curricula he will be interviewed by the members of a committee appointed by the faculty for this purpose. In the appraisal of applicants the committee gives careful consideration to the following factors established by the State Board of Education: intelligence, scholarship, professional aptitude, personality and character, speech and language usage, and many-sided interests.

Advanced Standing in Teacher Training A maximum of 18 units in courses in education will be credited toward degree requirements in case such work was taken more than five years before entering upon the degree curriculum at this college (date of first work taken after an evaluation of record has been made, for students entering with advanced standing).

After an interval of five years, evaluations are subject to revision in the light of such new requirements as may have been put into effect and with respect to deduction in credit in education courses.

Students formerly in attendance will not be considered to be working in the degree curriculum until an evaluation and statement of credit has been secured from the registrar's office. All courses taken either at this college or elsewhere must be approved by an official adviser or the Assistant Registrar (for those taken elsewhere) in order to be credited toward meeting degree requirements.

Teaching Major Defined A teaching major consists of a minimum of twenty-four units in a field other than education, at least twelve of which must be in the upper division. A *C* average in scholarship is required in all upper division courses in the field of the teaching major. A major for a special secondary credential varies from twenty-four to forty units as specified in the requirements for the various curricula. Teaching majors may be established in the following fields: English, foreign languages, general science, mathematics and social sciences (anthropology, economics, geography, history, political science) and in the special secondary credential fields of art, business education, music, physical education, and speech arts.

Teaching Major in English Candidates for the teaching major in the field of English are expected to show credit in English 1B or 1C and nine elective units of lower division work and in twelve units of upper division work. This credit must include 3 units in American Literature (either lower or upper division) and 3 units in Shakespeare. Recommended: English 2D and 112.

Teaching Major in General Science Candidates for a teaching major in the field of general science are required to include in their programs a college year course in a biological science, a year course in high school or college physics and a concentration of twelve units, at least six of which are upper division, in one major subject (botany, chemistry, physics, zoology). See definition of teaching majors.

Teaching Major in Social Science Candidates for a teaching major in the field of the social sciences are required to include in their programs a year course in modern American history and a concentration of twelve units, at least six of which are upper division, in one major subject (economics, geography, history, political science). See definition of teaching majors. The following courses may not be applied to the teaching major in the field of the social sciences; Economics 14A-14B, 18A-18B, 140, 160A-160B, 161, 162, 163, 164, 165; and all courses in merchandising.

Teaching Minor Defined A teaching minor consists of twelve units in a given field, at least six of which must be in upper division courses. Teaching minors may be established in the following fields: art, business education, English, foreign language, general science, mathematics, music, social sciences (anthropology, economics, geography, history, political science), physical education and speech arts.

Teaching Minor in English Candidates for the teaching minor in English must show credit in English 1B or 1C and three elective units of lower division work; and in six elective units in upper division English. This credit must include three units in American literature, taken either in lower division or upper division. Credit in journalism and speech arts may not be used to fulfill the requirements for the English minor. Recommended: English 2D.

Teaching Minor in Music Candidates for the teaching minor in music are required to take music aptitude tests at the time the minor is chosen and to enroll in at least one music activity each semester. In special cases this requirement may be waived by petition to the Music Department.

Applicants for music minors must maintain a grade average of *C* in all music courses. To Music L1A and L7A, required for the elementary credential, the following twelve units are added for the music minor. In the lower division, with the proper regard for course sequences, six units may be chosen from the following courses: Music 1B-1C-1D; L2A; L3A; 4A-4B; L6A, 8A-8B; L16; L17; L18; Aesthetics 1A-1B. In the upper division, not less than six units may be chosen from the following courses: Music 130A-130B; 106A; 107A; L116; L117; L118; 119A; 120A; 121A; Aesthetics 102A-102B.

Teaching Minor in Physical Education Candidates for a teaching minor in physical education for women must show credit for Physical Education L1A, L1B, L1C, L9A, 51, L53, and one unit of sophomore activities and six units elected from Physical Education L157A, L157B, L161, L164A, L164B and 170 in the upper division.

Candidates for a teaching minor in physical education for men must show credit for Physical Education L1A, L1B, L1C, L1D, L53, and L62A in the lower division; and six units elected from Physical Education L156A, L156B, L161, L166, 170 or L190 in the upper division.

Major and Minor Credential Requirements

1. **The junior high school credential:** A teaching major and a teaching minor in subjects taught in a junior high school are required. The combination of a special secondary credential with the junior high school credential requires the completion of another teaching major than that required for a special secondary credential; the units required for this additional major may be included in the twelve additional units required for the second credential.
2. **The elementary school credential:** Two teaching minors are required.
3. **A special secondary credential:** The completion of the major in the special subject field (*see detailed outlines of curricular patterns for credentials*) and a teaching minor are required.
4. **Credit limitations:** A maximum of forty units of credit in one subject matter field may be applied toward the requirements for the A.B. degree.

Preparation for Graduate Work Students who take the A.B. degree with a special credential and who contemplate doing graduate work for a master's degree in an academic field at another institution of higher learning, will find it advantageous to use their electives to lay a foundation for that work. A student who plans to do graduate work in the field of his major is advised to so arrange his electives as to complete the equivalent of the liberal arts major to avoid the necessity of making up an undergraduate deficiency.

Political Science The course in Political Science 101 or its equivalent is required of all graduates of the college or those securing a teaching credential through the college. The following courses are accepted as equivalents: Political Science 113 or 175A-175B; History 171A-171B or 173A-173B.

Upper Division Course Requirement At least 40 units in upper division courses must be completed, 30 of which must be earned after all lower division requirements have been satisfied.

Teacher Training Curricula and Teaching Credentials All Teacher Training Curricula leading to the Degree require a minimum of 18 semester units in education in addition to the general degree requirements previously listed.

A. The college offers curricula leading to the A.B. degree with authorization to recommend for the following teaching credentials:

1. **Kindergarten-Primary Credential** beginning in September 1942 the college will offer a program leading to the kindergarten-primary credential. The details of this program have not been completed in time for the publication of this bulletin but may be obtained by a request addressed to the registrar of the college.
2. **Elementary School Credential** authorizing the holder to teach any or all subjects in all grades of any elementary school in California.
3. **Junior High School Credential** authorizing the holder to teach any or all subjects in the seventh, eighth, and ninth grades of any elementary or secondary school in California. This credential will be issued only in combination with the elementary school credential, one of the special secondary credentials, or in combination with additional course requirements in the teaching major and in education as a preparation for graduate work for the general secondary credential. *Candidates for the latter type of combination should consult the Dean of Education regarding requirements.*
4. **Special Secondary Credential in Art** authorizing the holder to teach art subjects in any grade of the public schools of California.
5. **Special Secondary Credential in Business Education** authorizing the holder to teach commercial subjects in any grade of the public schools of California.
6. **Special Secondary Credential in Music** authorizing the holder to teach music in any grade of the public schools of California.
7. **Special Secondary Credential in Physical Education** authorizing the holder to teach physical education in any grade of the public schools of California.
8. **Special Secondary Credential in Speech Arts.** See page 48.

9. Administration and Supervision Credentials: Candidates desiring to qualify for administration and supervision credentials will meet the credential requirements as outlined in State Department of Education Bulletin No. 12, *Regulations Governing Granting of Credentials and Certificates for Public School Service in California*. At least one-half of the work required for this credential shall be done in San Diego State College if the college is to recommend the candidate for the credential. Further information will be furnished by the college upon request by the applicant.

Combination of Credentials In the case of students seeking more than one teaching credential, the curriculum for each credential must be completed in full, with only such exceptions as are indicated in the requirements. For each credential in addition to one, at least twelve additional units of credit must be earned, this work to be in electives in nonprofessional fields only, after the basic curriculum requirements have been satisfied.

A combination of the elementary school credential with the junior high school credential may be secured by completing the requirements for the elementary school credential and the following additional requirements: (a) a teaching major; (b) Education 100B; (c) a minimum of three units of practice teaching in a junior high school or the equivalent; (d) a course in Education 115B, *The Principles and Functions of Education*; (e) a total minimum of 132 units.

A candidate for either the general elementary credential or the kindergarten-primary credential may secure the other credential subsequently or concurrently by taking twelve additional units. Four of these units shall be in student teaching (Education 116) at the new level, four in methods at that level, and four as prescribed by the Dean of Education.

Limited Electives Credit for limited and vocational courses will be allowed in fulfillment of the requirements for the A.B. degree whenever they are required in any credential pattern completed by the student. A maximum of six units of credit in the following courses may be allowed to fulfill the requirements of any other credential pattern only after the student has received permission from the Dean of Education: Art L7, L14A; Economics L10A, L10B, L15A, L15B, L16A, L16B, L65A, L65B, L129, L163; Engineering L22, L23; English L1A, L1AA, L8; Health Education L151; Journalism L53A, L53B, L153A, L153B; Library Science L10; Mathematics LA, LB; Merchandising, all courses; Music L1A, L2A, L3A, L6A, L7A, L16A-B-C-D, L17A-B-C-D, L18A-B-C-D, L28A-L28B, L116A-B-C-D, L117A-B-C-D, L118A-B-C-D; Physical Education, all activity courses beyond the requirements specified in curricular patterns; Secretarial Training, all courses.

All courses which are offered specifically to students taking two-year completion courses (courses numbered L40, or L45) are classified as limited electives.

Curricula Leading to Teaching Credentials

All candidates in teacher training curricula should observe carefully the requirements for admission to teacher training and be prepared to meet them at the end of the sophomore year. Students in other colleges who contemplate transferring to San Diego State College should arrange their programs so as to meet the requirements of their particular curriculum as early as possible. See college calendar for dates when the fundamental test will be given and page 29 in this bulletin for requirements for admission to teacher training.

Kindergarten-Primary Credential

The college offers a program leading to the kindergarten-primary credential. The details of this program have not been completed in time for publication in this bulletin but may be obtained by a request addressed to the registrar of the college.

A.B. Degree With Elementary School Credential

See statement on page 30 regarding teaching minors

FRESHMAN YEAR

First Semester—	Units
Art 6A, Structure-----	2
Biology 10A, ¹ Science of Life-----	3
English L1A, ² or L1AA, ² or 1B, ² or 1C, ² Freshman English-----	3
Geography 1, Elements (Natural Science)-----	3
Physical Education, Freshman Activities-----	$\frac{1}{2}$
Health Education 1 or 2, Health and Social Adjustment-----	2
Electives ^{3, 4} -----	2
Second Semester—	
Biology 10B, ¹ Science of Life-----	3
English 1B, 1C or 2D-----	3
Geography 2, Regions (Social Science)-----	3
Music L1A, Music Reading and Ear-training-----	2
Physical Education, Freshman Activities-----	$\frac{1}{2}$
Electives ^{3, 4} -----	5
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SOPHOMORE YEAR

First Semester—	
Art 6B, Structure-----	2
English (selected from 1B, 1C, 2D, unless taken in freshman year, or from 52A, 52B, 56A, 56B)-----	3
Physical Education, Sophomore Activities-----	$\frac{1}{2}$

¹ Possible substitutions for the requirement in Biology 10A-10B:

- High school Biology (year course with laboratory work).
- Botany 2A-2B and Zoology 1A-1B—16 units.
- High school Botany and Zoology 1A-1B.
- High school Zoology and Botany 2A-2B.
- High school Botany and high school Zoology.
- Biology 1 and Physical Science 1A or 1B—6 units.

² Depending on result of Subject A test.

³ See Subject Matter Requirements in the Lower Division for total requirements in English, Natural Sciences, Social Sciences and Mathematics. See page 24.

⁴ Unless minor is English, General Science or Social Sciences.

Second Semester—

Physical Education L53—Physical Education in the Elementary School	2½
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Either Semester—

Art 61A, Elementary Crafts	2
Art 61B, Elementary Crafts	2
Music L7A, Music Materials for the Elementary Schools	3
Psychology 1A, General	3
Social Science 1A, Pol. Soc. and Econ. Problems	3
Laboratory Science unless Physics or Chemistry was taken in high school or Biology 10A-10B in freshman year	3-4
Electives to meet requirements in Natural Sciences, Social Sciences, and minors ^{3, 4, 5}	7-8

JUNIOR YEAR

32

First Semester—

Education 102A, The Psychological Foundations of Education	3
Education L147, Education Practicum—Lower Levels	12

Second Semester—

Education 102B, The Psychological Foundations of Education	3
Education L148, Education Practicum—Upper Levels	12

SENIOR YEAR

30

Education L116, Practice Teaching ⁶	6
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Either Semester—

Education 115 A, The Principles and Functions of Education	4
Electives including two minors and political science requirement (for the year)	20

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SUMMARY

Art 6A, 6B, 61A, 61B	8
Education 102A-102B, 115A, L116, L147, L148	40
English	6
Health Education 1 or 2	2
Music L1A, L7A	5
Natural Sciences (incl. Biology 10A-10B and Geog. 1)	14
Physical Education L1A-B-C, L53	4
Political Science 101	2
Psychology 1A	3
Social Sciences (including Social Science 1A and Geography 2)	14
Electives, including two teaching minors	26

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See Subject Matter Requirements in the Lower Division for total requirements in English, Natural Sciences, Social Sciences and Mathematics. See page 24.

Unless minor is English, General Science or Social Sciences.

If 6 units in minor taken in freshman year, none needed in sophomore year.

Candidates for the Elementary School Credential in combination with any other type of credential are required to do not less than 6 units of practice teaching in the elementary school.

See page 25.

A.B. degree with Junior High School credential Note: The Junior High School credential will be issued only in combination with one of the other teaching credentials, or with the additional courses in Education and the major subject field required as preparation for graduate work and the general secondary credential. The latter combination requires the completion of 24 upper division units in the departmental major instead of the teaching major which may be used only when the credential is used in combination with another.

First Semester—

	Unit
Biology 10A, ¹ Science of Life.....	3
English L1A or L1AA, ² or 1B, ² or 1C ²	3
Geography 1, Elements (Natural Science).....	3
Physical Education, Freshman Activities.....	$\frac{1}{2}$
Health Education 1 or 2, Health and Social Adjustment.....	2
Electives, ³ includes major and minor ⁴	4

Second Semester—

Biology 10B, ¹ Science of Life.....	3
English 1B, 1C or 2D.....	3
Geography 2, Regions (Social Science).....	3
Physical Education, Freshman Activities.....	$\frac{1}{2}$
Electives, ³ including major and minor ⁴	7
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	32

SOPHOMORE YEAR

First Semester—

English (selected from 1B, 1C, 2D, unless taken in freshman year or from 52A, 52B, 56A, 56B).....	3
Physical Education, Sophomore Activities.....	$\frac{1}{2}$
Psychology 1A, General.....	3

Second Semester—

Physical Education, Sophomore Activities.....	$\frac{1}{2}$
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Either Semester—

Social Science 1A, Pol., Soc. and Econ. Problems.....	3
Laboratory Science unless Physics or Chemistry was taken in High School or Biology 10A-10B in Freshman year.....	3-4
Elective, ³ including major and minor ⁵ (for the year).....	18-19
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	32

¹ Possible substitutions for the requirement in Biology 10A-10B:

- High school Biology (year course with laboratory work).
- Botany 2A-2B and Zoology 1A-1B—16 units.
- High school Botany and Zoology 1A-1B.
- High school Zoology and Botany 2A-2B.
- High school Botany and high school Zoology.
- Biology 1 and Physical Science 1A or 1B—6 units.

² Depending on result of Subject A test.

³ See Subject Matter Requirements in the Lower Division for total requirements in English, Natural Sciences, Social Sciences, and Mathematics. See page 24.

⁴ Unless minor is English, General Science or Social Science.

⁵ If 6 units in minor taken in freshman year, none needed in sophomore year.

JUNIOR YEAR

First Semester—

Units

Education L100A, ⁶ Methods and Materials of Instruction-----	3
Education 102A, The Psychological Foundations of Education-----	3
Political Science 101, American Institutions (or substitute)-----	2

Second Semester—

Education L100B, Methods and Materials of Instruction-----	3
Education 102B, The Psychological Foundations of Education-----	3
Education L116, Practice Teaching-----	3

Either Semester—

Health Education 151, Health Education-----	2
Electives, including major and minor (for the year)-----	11

30

SENIOR YEAR

First Semester—

Education 115A, The Principles and Functions of Education-----	4
Education L116, Practice Teaching-----	3

Second Semester—

Education 115B, The Principles and Functions of Education-----	4
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Either Semester—

Electives, including major and minor ⁷ (for the year)-----	19
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30

SUMMARY

Education L100A-L100B, 102A-102B, 115A-115B, L116-----	26
English -----	6
Health Education 1 or 2; 151-----	4
* Natural Sciences (including Biology 10A-10B and Geog. 1)-----	14
Physical Education -----	2
Political Science 101-----	2
Psychology 1A -----	3
* Social Sciences (including Social Science 1A and Geography 2) --	14
Electives, including teaching major and minor-----	53

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⁶ Not required if student is meeting requirements for elementary credential also.

⁷ If 6 units in minor taken in junior year, none needed in senior year.

* See page 25.

A.B. Degree With Special Credential in Art This course leads to the A.B. degree and to the Special Secondary Credential in Art which entitles the holder to teach art in senior high, junior high, and elementary schools.

LOWER DIVISION		Units
Aesthetics 50, History and Appreciation of Art-----		2
Art 6A-6B, Structure-----		4
Art 61A, 61B, Fine and Industrial Arts, Elementary Crafts-----		4
†English -----		6
Health Education 1 or 2, Health and Social Adjustment-----		2
†Natural Sciences (including laboratory course unless taken in high school) -----		8-14
Physical Education, Freshman and Sophomore Activities-----		2
Psychology 1A, General-----		3
†Social Sciences (including Social Science 1A)-----		9-14
Electives, including additional art for major and courses for teaching minor ¹ -----		13-24
		64

UPPER DIVISION		Units
Aesthetics 150, Appreciation and History of Art-----		2
Art 106A-106B, Printmaking -----		4
Art 112A-112B, Organization -----		6
Art 116A, Advanced Painting-----		3
Art 152A (unless 52A was taken in lower division), Stage Design-----		0-2
Art 195, Home Decoration-----		2
Electives in U. D. Art-----		3-5
Education L100A ² -L100B, Methods and Materials of Instruction--		6
Education 102A-102B, The Psychological Foundation of Education		6
Education 115B, The Principles and Functions of Education-----		4
Education L116, Practice Teaching (4 units in special field)-----		6
Education L119, Art in the Elementary School-----		2
Political Science 101, American Institutions (or substitute)-----		2
Electives, including additional art and teaching minor-----		12-14
		60

SUMMARY		Units
Aesthetics 50 and 150-----		4
Art major -----		40 ³
Education -----		24
English -----		6
Health Education 1 or 2-----		2
*Natural Sciences -----		14
Physical Education -----		2
Political Science 101-----		2
Psychology 1A -----		3
*Social Sciences (including Social Science 1A)-----		14
Electives, including teaching minor-----		13
		124

¹ Unless minor is English, General Science, or Social Science.

² Not required if student is meeting requirements for elementary credential also.

³ Maximum credit allowable in art.

† See Subject Matter Requirements in the Lower Division page 24.

* See page 25.

A.B. Degree With Special Credential in Business Education This course leads to the A.B. degree and to the Special Secondary Credential in Business Education, which entitles the holder to teach business subjects in senior high and junior high schools.

In addition to the following academic requirements, satisfactory evidence of one-half year, or 1000 hours of approved experience in the field named in the credential must be submitted. For the credentials in the General Business Subfield twelve semester hours of work above the requirements for a bachelor's degree may be offered in lieu of the six months of full-time experience. At least six semester hours of the twelve must be in business or economics.

Accounting and Secretarial Subfields

LOWER DIVISION		Units
Economics 1A-1B, Principles	-----	6
Economics 14A-14B, Accounting	-----	6
English L8, English in Business	-----	3
Geography 10A-10B, Economic Geography	-----	6
¹ Natural Sciences	-----	8
Physical Education, Freshman and Sophomore Activities	-----	2
Health Education 1 or 2, Health and Social Adjustment	-----	2
Speech Arts 1A, Fundamentals of Public Speaking	-----	3
Social Science 1A, Pol., Soc. and Econ. Problems	-----	3
Psychology 1A, General	-----	3
Secretarial Training 1A, Business Mathematics	-----	1
Secretarial Training L1A-L1B, Typewriting	-----	6
Secretarial Training L5A-L5B, Stenography	-----	10
Secretarial Training L3A, Office Methods and Appliances	-----	3
Electives	-----	2
		64
UPPER DIVISION		
Economics 18A-18B, Commercial Law	-----	6
Economics 100, or 102 or 111 or 123	-----	3
Economics 121, Business Administration	-----	3
Upper Division Accounting	-----	6
Education L100A-L100B, Methods and Materials of Ed.	-----	6
Education 102A-102B, The Psych. Foundations of Ed.	-----	6
Education 115B, The Principles and Functions of Ed.	-----	4
Education L116, Practice Teaching	-----	6
Special Methods Courses as prescribed by major department	-----	4
Political Science 101, American Institutions (or substitute)	-----	2
Minor	-----	6
Electives	-----	8
		60

See page 25. Students deficient in high school natural science will have to make up such deficiency in college. See Subject Matter Requirements in the Lower Division.

By electing Merchandising L25, Salesmanship; Merchandising L27, Advertising; Merchandising L26, Applied Salesmanship; Economics 123, Marketing; the Merchandising Subfield may be added to the above authorization.

General Business Subfield

LOWER DIVISION

	Units
Economics 1A-1B, Principles-----	6
Economics 2, Mathematics of Finance-----	3
Economics 14A-14B, Accounting-----	6
Economics 18A-18B, Commercial Law-----	6
Geography 10A-10B, Economic Geography-----	6
Merchandising L26, Salesmanship-----	2
Merchandising L27, Advertising-----	3
¹ Natural Sciences -----	8
Physical Education, Freshman and Sophomore Activities-----	2
Psychology 1A, General-----	3
Secretarial Training LA, Business Mathematics-----	1
Secretarial Training L1A-L1B, Typewriting-----	6
English L8, English in Business-----	3
Social Science 1A, Pol., Soc. and Econ. Problems-----	3
Speech Arts 1A, Fundamentals of Public Speaking-----	3
Electives, including Freshman English-----	3

64

UPPER DIVISION

Economics 100, Modern Economic Thought, or a course in Consumer Economics or Economics 102, Social Control and Economic Planning -----	3
Economics 121, Business Administration-----	3
Economics 135, Money and Banking-----	3
Economics 162, Accounting Systems-----	3
Education 100A-100B, Methods and Materials of Instruction-----	6
Education 102A-102B, The Psychological Foundations of Education-----	6
Education 115B, The Principles and Functions of Education-----	4
Education 116, Practice Teaching-----	6
Special Methods Courses as prescribed by major department-----	4
Economics 195, International Economic Relations-----	3
Health Ed. 1 or 2, Health and Social Adjustment-----	2
Political Science 101, American Institutions (or substitute)-----	2
Electives (including a minimum of 5 units in the upper division, 3 units of which must be in commerce)-----	15

60

¹ See page 25. Students deficient in high school natural science will have to make up such deficiency in college. See subject matter requirements in the Lower Division.

A.B. Degree With Special Credentials in Music Students intending to become applicants for this credential must show evidence of musical ability, before entering the course. They must be able to play artistically upon the piano, music of the grade of the simpler *Songs Without Words* of Mendelssohn or else possess a corresponding degree of proficiency in voice or on an orchestral instrument. No credit is given to music majors for the basic courses of Music L1A and Music L7A, but if a deficiency exists in the field of general musicianship, the student will be required to take either or both of these courses without credit.

All music majors are required to enroll in two musical activities each semester. In special cases this requirement may be waived by petition to the Music Department.

All students are requested to pass examinations in applied music. No credit is allowed to majors in voice or orchestral instruments for any work in piano which is below the level of artistic hymn playing.

Applicants for the Special Secondary Credential in Music must maintain a grade average of *C* or better in music courses.

All students majoring in music are required to pass a comprehensive examination in this field during the senior year.

This course leads to the A.B. degree with a Special Secondary Credential in Music which will authorize the holder to teach music in the elementary, junior and senior high schools of the State.

A maximum of 40 units in Music may be used toward the A.B. degree. Of these 40 units a maximum of 3 may come from the field of musical activities: band, choir, chorus, glee clubs and orchestra.

FRESHMAN YEAR		Units
First Semester—		
English L1A ¹ , 1B, ¹ or 1C ¹ _____		3
Health Education 1 or 2, Health and Social Adjustment_____		2
History 4A or 8A_____		3
Aesthetics 1A, Survey of Music_____		2
Music 1B, Music Reading and Ear Training_____		2
Music L18, Individual Study of Piano or Organ_____		1
Social Science 1A, Contemporary Pol., Soc. and Econ. Problems_____		3
Physical Education _____		$\frac{1}{2}$
		<hr/>
		16 $\frac{1}{2}$
Second Semester—		
² English _____		3
Geography 1, Elements (Natural Science)_____		3
History 4B or 8B_____		3
Aesthetics 1B, Survey of Music_____		2
Music 1C, Advanced Music Reading and Ear Training_____		2
Music L3A, Woodwind Instrument Class_____		1
Music L18B, Individual Study of Piano or Organ_____		1
Physical Education _____		$\frac{1}{2}$
		<hr/>
		15 $\frac{1}{2}$

¹ Depending on result of Subject A test.
² See Lower Division requirements on page 24.

SOPHOMORE YEAR

First Semester—

	Units
Music 1D, Advanced Music Reading and Ear Training-----	2
Music L2A, String Instrument Class-----	1
Music 4A, Elementary Harmony-----	3
Music L18c, Individual Study of Piano or Organ-----	1
*Natural Sciences -----	6
Geography 2, Regions -----	3
Physical Education -----	$\frac{1}{2}$

16 $\frac{1}{2}$

Second Semester—

Music 4B, Elementary Harmony -----	3
Music L6A, Individual Study of an Orchestral Instrument-----	1
Music L17, Individual Study of Voice-----	1
Music L18, Individual Study of Piano or Organ-----	1
Psychology 1A, General -----	3
*Natural Sciences -----	5
Physical Education -----	$\frac{1}{2}$

14 $\frac{1}{2}$

JUNIOR YEAR

First Semester—

Music 105A, Advanced Harmony and Composition-----	3
Education L117A, Music in Elementary School-----	2
Education L145, Organization and Administration of Music Education -----	2
Education 102A, Psychological Foundations of Education-----	3
Education L100A, Methods and Materials of Instruction-----	3
Upper Division Minor -----	3

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Second Semester—

Political Science 101, American Institutions-----	2
Music 105B, Advanced Harmony and Composition-----	3
Music L117A, Advanced Individual Study of Voice-----	1
Education L100B, Methods and Materials of Instruction-----	3
Education 102B, Psychological Foundations of Education-----	3
Upper Division Minor -----	3

15

First Semester—

SENIOR YEAR

Music 107A, Form and Analysis-----	2
Music 119, Instrumental Conducting -----	1
Music L117B, Advanced Individual Study of Voice-----	1
Aesthetics 102A, History of Music-----	2
Education L116, Practice Teaching-----	6
**Music Activities -----	2

14

* See Subject Matter Requirement in the Lower Division on page 25.
 ** NOTE.—A maximum of 3 units is credited toward the special Secondary credential in Music for music activities carried on throughout the four year course. These activities: band, choir, glee clubs, chorus and orchestra are an integral part of the work of the course and each music major is expected to participate in at least two of these each semester unless excused by the Music Department.

Second Semester—		Units
Music 106A, Counterpoint		2
Music L117C, Advanced Individual Study of Voice.....		1
Music 120A, Vocal Conducting		1
Music 121A, Instrumentation		2
Aesthetics 102B, History of Music.....		2
Education 115B, Principles and Functions of Education.....		4
Education L116, Practice Teaching.....		3
*Music Activities		1
		<hr/> 16

SUMMARY

Health Education 1 or 2.....	2
Aesthetics 1A, 1B, 102A, 102B.....	8
Education L100A, L100B, 102A, 102B, 115B, L116, L117, L145....	29
English	6
Upper Division Minor	6
Natural Sciences (including Geography 1).....	14
Music 1B, 1C, 1D, L2A, L3A, 4A, 4B, L6A, L17A-B-C-D, L18A-B- C-D, 105A, 105B, 106A, 107A, 119, 120A, 121A, Music Activities	40
Social Sciences (including Soc. Sci. 1A, Geog. 2, and Hist.).....	14
Psychology 1A	3
Physical Education	2
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* NOTE.—A maximum of 3 units is credited toward the special Secondary credential in Music for music activities carried on throughout the four year course. These activities, band, choir, glee clubs, chorus and orchestra are an integral part of the work of the course and each music major is expected to participate in at least two of these each semester unless excused by the Music Department.

A.B. Degree With Special Credential in Physical Education This course leads to the A.B. degree and to the Special Secondary Credential in Physical Education which entitles the holder to teach physical education in senior high, junior high, and elementary schools.

MEN

LOWER DIVISION

	Units
Biology 10A-10B, Science of Life (unless taken as a year course in high school with at least a grade of B)	
or	
Zoology 1A, General -----	4-6
†English -----	6
Health Education 1 -----	2
†Natural Sciences -----	5 or 7
Physical Education:	
L1A-1B, L1C-1D -----	2
30, Emergencies -----	2
L53, Physical Education in the Elementary School -----	2½
L62A, L62B, Gymnastic Activities -----	4
L66, Playing Rules of Modern Games -----	1
L72, Principles -----	2
Sports and Athletics ¹ -----	2
Psychology 1A, General -----	3
†Social Sciences, including Social Science 1A, Political, Social and Economic Problems -----	14
Speech Arts 1A, Fundamentals of Public Speaking -----	3
Zoology 20, Anatomy and Physiology (or Zoology 108) -----	3
Electives, including courses to meet minor requirements ² -----	6½
	64

UPPER DIVISION

Education L100A-L100B, Methods and Materials of Instruction---	6
Education 102A-102B, The Psychological Foundations of Education	6
Education 115B, The Principles and Functions of Education-----	4
Education L116, Practice Teaching -----	6
Health Education 151 -----	2

Physical Education (*three of the starred following courses may be omitted*):

L154, Organ. and Admin. of Physical Education-----	3
L155, Applied Anatomy -----	3
L156A-156B, Sports Methods -----	4
*161, Folk Dancing -----	2
*L166, Technique of Officiating-----	2
*L168, Physiology of Exercise-----	2
L169, Technique of Teaching Activities-----	3
*170, Recreational Leadership -----	2

¹ Men majoring in Physical Education are requested to participate actively in at least one sport and two additional activities per year in order to secure adequate activity background for teaching.

² Unless minor is English, General Science, or Social Science.

† See Subject Matter Requirements in the Lower Division, page 24.

MEN—Continued

UPPER DIVISION—Continued

Physical Education—Continued	Units
*L180, Theory of Coaching Football-----	2
L190, Individual Program Adaptation-----	3
Sports and athletics ¹ -----	2
Zoology 114A, Genetics-----	2
Political Science 101, American Institutions (or substitute)-----	2
Electives-----	13
	<hr/> 60

SUMMARY

Education L100A-L100B, 102A-102B, 115B, L116-----	22
English-----	6
Health Education 1, 151-----	4
Speech Arts 1A-----	3
†Natural Sciences (including Biology 10A-10B or substitute and Zoology 20)-----	14
Physical Education teaching major-----	33
Political Science 101-----	2
Psychology 1A-----	3
††Social Sciences (including Social Science 1A)-----	14
Zoology 114A-----	2
Electives, including teaching minor-----	21
	<hr/> 124

† See page 25.

†† See page 25.

WOMEN

LOWER DIVISION

	Units
Aesthetics 1A, Survey of Music-----	2
Biology 10A-10B, Science of Life (unless taken as a year course in high school with at least a grade of B)-----	6
*English-----	6
Health Education 2, Health and Social Adjustment-----	2
*Natural Sciences-----	5-7

Physical Education :

L1A, Fundamental Skills-----	1 1/2
L1B, Folk Dancing-----	1 1/2
L1C, Rhythmic Skills-----	1 1/2
L4A, Social Dancing-----	1 1/2
L5B, Archery-----	1 1/2
L6A, Badminton-----	1 1/2
L9A, Stunts and Tumbling-----	1 1/2
L10C, Life Saving-----	1 1/2
L11B, Tennis-----	1 1/2
L53, Physical Education in the Elementary School-----	2 1/2
Sports and Dancing ² -----	1 1/2
Health Education 51, Safety Education-----	1
Psychology 1A, General-----	3
*Social Sciences (including Soc. Science 1A)-----	12
Speech Arts-----	3
Zoology 20, Anatomy and Physiology-----	3
Electives, including teaching minor ¹ -----	13 1/2
	64

UPPER DIVISION

Education L100A-L100B, Methods and Materials of Instruction----	6
Education 102A-102B, The Psychological Foundations of Education	6
Education 115B, The Principles and Functions of Education-----	4
Education L116, Practice Teaching-----	6
Health Education 151, Health Educatoin-----	2

Physical Education :

L153, Administration of Secondary Physical Education-----	2
L155, Applied Anatomy-----	2
L157A-L157B, Sports Methods-----	4
L160, Principles of Teaching Gymnastics-----	2
L161, Folk Dancing-----	2
L164A-L164B, Advanced Dancing-----	4
L168, Physiology of Exercise-----	2
L169, Technique of Teaching Activities-----	3
170, Recreational Leadership-----	2
L173, Principles of Physical Education-----	2
L177, Individual Program Adaptations-----	2
L185, Techniques of Individual Sports-----	1

¹ Unless minor subject is English, General Science, or Social Science.

² Chosen from L2A, L2B, L3A, L3B, L3C, L3D, L4B, L5A, L6A, L6B, L7A, L8A, L8B, L8C, L8D, L10A, L10B, or L11A.

* See Subject Matter Requirements in the Lower Division, page 24.

WOMEN—Continued

UPPER DIVISION—Continued

Physical Education—Continued	Units
Political Science 101, American Institutions (or substitute) -----	2
Electives, including minor -----	6
	<hr/> 60
SUMMARY	
Aesthetics, 1A -----	2
Education L100A-L100B, 102A-102B, 115B, L116 -----	22
English -----	7
Health Education 2, 51, and 151 -----	5
*Natural Sciences (including Biology 10A-10B or substitute, and Zoology 20) -----	14
Physical Education teaching major -----	36½
Psychology 1A -----	3
*Social Sciences (including Social Science 1A and Political Science 101) -----	14
Speech Arts -----	3
Electives, including a teaching minor -----	18½
	<hr/> 124

* See lower division requirements, page 25.

A.B. Degree With a Major in Speech Arts. The college is authorized to grant an A.B. degree with a major in Speech Arts. Upon the satisfactory completion of the following curriculum the college will recommend that the Division of Credentials of the State Department of Education grant its graduates the Special Credential in Speech Arts. A scholarship average of C or better is required in all Speech Arts courses.

LOWER DIVISION		Unit
Speech Arts 1A-1B or 1C-1D or 60	-----	6
Speech Arts 55A-55B or 55C-55D	-----	6
Speech Arts 63A-63B, Verse Choir	-----	1
¹ Natural Sciences	-----	14
¹ Social Sciences (including Social Science 1A)	-----	12
Electives and Minor	-----	10
Psychology 1A, General	-----	3
Health Education 1 or 2, Health and Social Adjustment	-----	2
English L1A, 1B, or 1C and 3 units from 30A-30B, 52A-52B, 56A-56B	-----	6
Physical Education L1A, L1B, L1C and L3A or L11A	-----	2
Aesthetics 1A or 5	-----	2
		<hr/> 64

UPPER DIVISION		
Health Education 151, Health Education	-----	2
Education L100A-L100B, Methods and Materials of Instruction	---	6
Education 102A-102B, Psychological Foundations of Education	----	6
Education 115B, Principles and Functions of Education	-----	4
Education L116, Practice Teaching	-----	6
Political Science 101, American Institutions	-----	2
Teaching minor	-----	6
Speech Arts 155A-155B or 156A-156B	-----	6
Speech Arts 163	-----	3
Speech Arts 150, Phonetics	-----	2
Speech Arts Electives	-----	9
Electives to include 6 units from P. E. L164A or L12A; English 152A-152B; Eng. 110, 116B, 117A-B; or upper division courses offered in both English and Speech Arts	-----	8
		<hr/> 60

¹ See lower division requirements, page 25.

Summary

	Units
Aesthetics 1A or 5-----	2
Education L100A-L100B, 102A-102B, 115B, L116-----	22
English -----	6
Health Education -----	4
¹ Natural Sciences -----	14
Physical Education -----	2
Psychology 1A -----	3
¹ Social Sciences (including Social Science 1A and Political Science 101) -----	14
Speech Arts -----	33
Electives, including teaching minor-----	24
	124

Special Credential in Correction of Speech Defects. The credential is available to graduate students who have successfully completed two years of teaching in any field. Specialized courses are required for certification plus a total of 100 hours of clinical experience in the treatment of articulatory and nervous disorders of speech.

¹ See lower division requirements, page 25.

PROFESSIONAL AND PREPROFESSIONAL CURRICULA

Professional and preprofessional courses, ranging in length from two years to three and four years of collegiate work, are offered by this institution. The following curricular outlines meet typical requirements for admission to professional schools of law, medicine, dentistry, nursing, pharmacy, optometry, social service, public service, journalism, agriculture, and engineering. The student may modify these suggested outlines of study whenever the peculiar requirements of the professional school of his choice makes it seem advisable for him to do so.

The degree curricula in liberal arts may be modified to include the course outlines which follow. For a complete statement of the requirements for the junior certificate and the degree see page 24 and following pages.

Prelegal Curriculum

The entrance requirements of law colleges range from two years to three and four years of prelegal work. The lower division requirements of the liberal arts curricula should be met in full whether the curriculum extends over a period of two, three, or four years.

The following curriculum meets the recommendations of standard American law colleges for a broad and liberal education in those fields of human knowledge commonly involved in human affairs and those which have cultural and disciplinary values. For the majority of prelegal students a general major with concentration in economics, as provided for in the following curriculum, furnishes the most effective preparation for later professional study in law and for later activities in the field of business. However, for some students a major, or at least strong minors, in English, history, or political science, may provide a suitable preparation.

The high school program should include the following subjects: elementary algebra, 1 unit (2 semester credits); plane geometry, 1 unit; intermediate algebra, 1 unit; foreign language, 3 units in one language or 2 units in each of two languages.

Following is a recommended arrangement of courses:

FRESHMAN YEAR		Units	
Physical Education	-----	$\frac{1}{2}$	$\frac{1}{2}$
Health Education 1 or 2	-----	2	--
*Foreign Languages (if needed to complete requirement)	-----	3-5	3-5
*Natural Science	-----	3-5	3-5
*English	-----	3	3
Economics 14A-14B	-----	3	3
Psychology 1A	-----	--	3
Electives ¹	-----	0-4	0-3
		<hr/>	<hr/>
		15 $\frac{1}{2}$	15 $\frac{1}{2}$

* See lower division requirements, page 24.

¹ Recommended elective: History, 6 units, taken in the freshman or sophomore year.

SOPHOMORE YEAR

Units

Physical Education	1½	1½
*Additional Natural Science (if needed to meet requirement)	3	--
Economics 1A-1B	3	3
Philosophy 5A-5B or Mathematics 3A-3B	3	3
Political Science 1A-1B or 71A-71B	3	3
Electives ¹	3	6
	15½	15½

JUNIOR YEAR

Economics 121	3	--
Economics 133	3	--
Economics Elective ²	--	3
History 151A-151B or 175A-175B	3	3
Political Science 111 and 113 or 143A-143B	3	3
Sociology 105, 106	3	3
Electives ³	3	3
	15	15

SENIOR YEAR

Economics 100	3	--
Economics Electives ²	--	3
History 111A-111B or 121A-121B	3	3
Political Science 175A-175B	3	3
Electives ³	6	6
	15	15

Preoptometry Curriculum

The high school program should include the following subjects: elementary algebra 1 (year) unit; plane geometry, 1 unit; algebraic theory, 1 unit; trigonometry, ½-unit; physics, 1 unit; chemistry, 1 unit; foreign language, 3 units.

The following curriculum prepares for junior standing in university schools of optometry:

FRESHMAN YEAR

Physical Education	1½	1½
Health Education 1 or 2	2	--
*Foreign Language (if needed to complete requirements)	3	3
Physics 2A-2B	3	3
Physics 3A-3B	1	1
Speech Arts 1A-1B	3	3
*Social Science	3	3
Electives	--	3
	15½	16½

¹ Recommended elective: History, 6 units, taken in the freshman or sophomore year.

² To be chosen from the following list: Economics 111, 131, 135, 150, 199.

³ Recommended electives: English, philosophy, psychology, economics. See minors required, page 27.

* See lower division requirements, page 25.

SOPHOMORE YEAR		Units	
Physical Education -----	$\frac{1}{2}$	$\frac{1}{2}$	
Chemistry 1A-1B -----	5	5	
Mathematics 3A-3B -----	3	3	
Psychology 1A -----	---	3	
Social Science 1A -----	3	---	
Physiology 1A and 1C ¹ -----	---	5	
Electives -----	4	---	
		15 $\frac{1}{2}$	16 $\frac{1}{2}$

Premedical Curriculum

The entrance requirements of medical colleges ordinarily range from three to four years of premedical work. The lower division requirements of the Liberal Arts curricula include the general requirements of standard medical colleges and should therefore be met in full whether the curriculum extends over a period of three or of four years. However, a student who has definitely decided not to become a candidate for a degree in San Diego State College may substitute the lower division requirements of the institution to which he expects to transfer in place of the following courses marked with an asterisk. All plans for premedical work should include an arrangement of courses to meet the requirements of the medical college which the student expects to enter.

A student who is pursuing a four-year premedical curriculum should major in chemistry or zoology in his junior and senior years, and must meet all upper division requirements for the A.B. degree in the Liberal Arts curricula.

The high school program should include the following subjects: elementary algebra, 1 (year) unit; plane geometry, 1 unit; chemistry, 1 unit; physics, 1 unit; French or German, 2 or 3 units. Two units of Latin are recommended.

Following is a recommended arrangement of courses:

FRESHMAN YEAR		Units		SOPHOMORE YEAR		Units	
Physical Education -----	$\frac{1}{2}$	$\frac{1}{2}$		Physical Education -----	$\frac{1}{2}$	$\frac{1}{2}$	
Health Education -----	2	---		Zoology 1A-1B -----	4	4	
Chemistry 1A-1B -----	5	5		Chemistry 7-8 -----	3	3	
*English Composition ---	3	3		**Social Science Year Course -----	3	3	
**French or German (if needed to meet requirement) ² -----	3-5	3-5		**Psychology 1A -----	3	---	
**Electives -----	0-2	2-5		**Social Science 1A -----	---	3	
				**Additional Year Course ³ -----	3	3	
		15 $\frac{1}{2}$	16 $\frac{1}{2}$			16 $\frac{1}{2}$	16 $\frac{1}{2}$

¹ If not available, Zoology 20 may be substituted.

² German if the major is Chemistry.

³ Mathematics 3A-3B or satisfactory substitute if the major is Chemistry.

* Chosen from English 1B or 1C and 2A, 2B, 2C, 2D, 2E, 2F.

** See lower division requirements, page 24.

JUNIOR YEAR	Units		SENIOR YEAR	Units	
Political Science 101-----	--	2	Upper division requirements and electives for the major, the minors and the degree (see page 26)-----		
Physics 2A-2B -----	3	3			
Physics 3A-3B -----	1	1			
Chemistry 105 -----	3	--		15	15
Zoology 100 -----	--	3		—	—
Zoology 100D -----	--	1		15	15
Zoology 106 -----	4	--			
Electives -----	4	5			
	15	15			

Prenursing Curriculum

A student who plans to complete a curriculum in nursing leading to a degree and a certificate in nursing in another collegiate institution should ascertain the lower division (junior certificate) requirements of that institution. The lower division requirements of the institution to which the student will transfer may be substituted for the following courses marked with an asterisk wherever the requirements differ.

The high school program should include the following subjects: elementary algebra, 1 (year unit); plane geometry, 1 unit; chemistry, 1 unit; physics, 1 unit; French or German, 2 or 3 units; domestic science (foods), 1 unit; 2 units of Latin are recommended.

The following is a recommended arrangement of courses:

FRESHMAN YEAR	Units		SOPHOMORE YEAR	Units	
Physical Education -----	$\frac{1}{2}$	$\frac{1}{2}$	Physical Education -----	$\frac{1}{2}$	$\frac{1}{2}$
Health Education -----	2	--	Psychology 1A-1B -----	3	3
Chemistry 2A-2B -----	3	3	Economics 1A-1B -----	3	3
Bacteriology 1 -----	--	4	**Social Science 1A-----	3	--
English Composition ---	3	3	**Additional Year Course	3	3
*French or German (if			Physiology 1A, 1C-----	--	5
needed to complete re-			Zoology 8 -----	3	--
quirement) -----	3-5	3-5	Electives -----	--	3
*Electives -----	3-5	0-2			
	16 $\frac{1}{2}$	15 $\frac{1}{2}$		15 $\frac{1}{2}$	17 $\frac{1}{2}$

Predental Curriculum

Candidates for a degree in dentistry should ascertain the entrance requirements of the dental college to which they expect to transfer and should make whatever changes in the following typical requirements that may seem desirable in satisfying the requirements of the dental college.

The high school program should include the following subjects: elementary algebra, 1 (year) unit; plane geometry, 1 unit; chemistry, 1 unit; physics, 1 unit; foreign language, 3 or 4 units.

Chosen from English 1B or 1C and 2A, 2B, 2C, 2D, 2E, 2F.

* See lower division requirements for junior standing (junior certificate) page 24 and ff.

The following arrangement of courses is recommended:

FRESHMAN YEAR		Units	SOPHOMORE YEAR		Units
Physical Education---	$\frac{1}{2}$	$\frac{1}{2}$	Physical Education -----	$\frac{1}{2}$	$\frac{1}{2}$
Health Education---	2	--	Chemistry 7-8 -----	3	3
Chemistry 1A-1B---	5	5	Physics 2A-2B or Zoology		
*English 1B and 2A			1A-1B -----	3-4	3-4
or 2B, 2C, 2D, 2E,			**Social Science Year		
2F -----	3	3	Course -----	3	3
**Foreign language			**Psychology 1A -----	3	--
(if needed to com-			**Social Science 1A-----	--	3
plete requirement)	3	3	**Additional Year Course	3	3
**Electives -----	3	4			
	<hr/> 16 $\frac{1}{2}$	<hr/> 15 $\frac{1}{2}$		<hr/> 15 $\frac{1}{2}$	<hr/> 16 $\frac{1}{2}$

Preagricultural Curricula

The high school program should include the following subjects: elementary algebra 1 (year) unit; plane geometry, 1 unit; algebraic theory, 1 unit; trigonometry, $\frac{1}{2}$ unit; chemistry, 1 unit; physics, 1 unit; mechanical drawing 1 unit.

Students should ascertain the lower division requirements of the agricultural college they expect to enter.

The following arrangement of courses is recommended:

Curriculum in Plant Science

FRESHMAN YEAR		Units
Physical Education -----	$\frac{1}{2}$	$\frac{1}{2}$
Health Education -----	2	--
Chemistry 1A-1B ¹ -----	5	5
Botany 2A-2B -----	4	4
Physics 2A-2B -----	3	3
Electives ² -----	2	3
	<hr/> 16 $\frac{1}{2}$	<hr/> 15 $\frac{1}{2}$
SOPHOMORE YEAR		
Physical Education -----	$\frac{1}{2}$	$\frac{1}{2}$
Economics 1A-1B -----	3	3
Chemistry 7-8 -----	3	3
Geology 1A or 2A -----	3	--
Bacteriology 1 -----	--	4
Zoology 1A -----	4	--
Botany 107 -----	--	4
Electives ² -----	3	1
	<hr/> 16 $\frac{1}{2}$	<hr/> 15 $\frac{1}{2}$

¹ See prerequisites, page 81.

² Foreign language if not taken in high school.

* Chosen from English 1B or 1C and 2A, 2B, 2C, 2D, 2E, 2F.

** See lower division requirements for junior standing (junior certificate) page 64 and ff.

Curriculum in Animal Science

FRESHMAN YEAR		Units	
Physical Education -----	$\frac{1}{2}$	$\frac{1}{2}$	
Health Education -----	2	--	
Chemistry 1A-1B ¹ -----	5	5	
Zoology 1A-1B -----	4	4	
Physics 2A-2B -----	3	3	
Geology 2B -----	--	3	
Electives ² -----	2	--	
		$16\frac{1}{2}$	$15\frac{1}{2}$
SOPHOMORE YEAR			
Physical Education -----	$\frac{1}{2}$	$\frac{1}{2}$	
Economics 1A-1B -----	3	3	
Chemistry 7-8 -----	3	3	
Bacteriology 1 -----	--	4	
Botany 1A -----	4	--	
Zoology 100 -----	--	3	
Zoology 20 or 108 -----	--	3	
Electives ² -----	5	--	
		$15\frac{1}{2}$	$16\frac{1}{2}$

Curriculum in Forestry

FRESHMAN YEAR			
Physical Education -----	$\frac{1}{2}$	$\frac{1}{2}$	
Chemistry 1A-1B ¹ -----	5	5	
Botany 1A-1B -----	4	4	
*English 1B and Composition -----	3	3	
Mathematics 3A-3B -----	3	3	
		$15\frac{1}{2}$	$15\frac{1}{2}$
SOPHOMORE YEAR			
Physical Education -----	$\frac{1}{2}$	$\frac{1}{2}$	
Physics 2A-2B, 3A-3B -----	4	4	
Engineering 1A-1B -----	3	3	
Economics 1A-1B -----	3	3	
Geology 2A -----	3	--	
Chemistry 7 -----	3	--	
Botany 107 -----	--	4	
Electives ² -----	--	2	
		$16\frac{1}{2}$	$16\frac{1}{2}$

* Chosen from English 1B or 1C and 2A, 2B, 2C, 2D, 2E, 2F.

¹ See prerequisites, page 64.

² Foreign language if not taken in high school.

Preengineering Curriculum

This curriculum is intended for students planning an intensive specialization in particular branches of engineering.

The high school program should include the following subjects: elementary algebra, 1 (year) unit; plane geometry, 1 unit; algebraic theory, 1 unit; solid geometry, $\frac{1}{2}$ unit; trigonometry, $\frac{1}{2}$ unit; chemistry, 1 unit; physics, 1 unit; mechanical drawing, 1 unit.

Students should ascertain the requirements of the engineering college they expect to enter.

Mechanical, Electrical, Civil and Mining Engineering

FRESHMAN YEAR		Units	
Physical Education	-----	$\frac{1}{2}$	$\frac{1}{2}$
Health Education 1	-----	--	2
Mathematics 3A-3B	-----	3	3
Chemistry 1A-1B	-----	5	5
Physics 1A-1B	-----	3	3
†Geology 1A or elective	-----	4	--
Electives	-----	--	3
		<hr/>	<hr/>
		15 $\frac{1}{2}$	16 $\frac{1}{2}$

Mechanical and Electrical Engineering

SOPHOMORE YEAR			
Engineering 1A	-----	3	--
Engineering 21	-----	3	--
Engineering 22	-----	--	3
Engineering 23	-----	--	2
Mathematics 4A-4B	-----	3	3
Mathematics 118 or 119	-----	--	3
Physical Education	-----	$\frac{1}{2}$	$\frac{1}{2}$
Physics 1C-1D	-----	3	3
Electives	-----	3	2
		<hr/>	<hr/>
		15 $\frac{1}{2}$	16 $\frac{1}{2}$

Civil Engineering

SOPHOMORE YEAR			
Astronomy 3	-----	--	2
Engineering 1A-1B	-----	3	3
Engineering 21	-----	3	--
Engineering L23	-----	--	2
Mathematics 4A-4B	-----	3	3
Physical Education	-----	$\frac{1}{2}$	$\frac{1}{2}$
Physics 1C-1D	-----	3	3
*Electives	-----	3	3
		<hr/>	<hr/>
		15 $\frac{1}{2}$	16 $\frac{1}{2}$

* Certain upper division engineering courses may be chosen to advantage by properly qualified students.

† Geology 1A is required in the civil engineering curriculum.

Curriculum in General Engineering

A four-year curriculum is available at San Diego State College leading to the A.B. degree in General Engineering. The curriculum is designed to provide the student with the fundamentals of an engineering and technical education without intensive specialization. It is planned to provide considerable elective opportunities, which will enable the student to adapt the program to his particular needs, with emphasis on one branch of engineering training, science, or business.

All students with aptitude for professional engineering and the financial means are urged to complete the requirements for the degree in mechanical, electrical, or civil engineering in our state university or at some other institution having a standard engineering school. There is, however, an increasing need for college graduates in fields of engineering, engineering science, or business engineering, where an intensive specialized training is not necessary. Students with training in a general engineering curriculum may easily adapt their programs to provide preparation for work in various engineering fields, as the electrical, heating and ventilation, public utility, telephone, and aeronautical industries among many others. Preparation is also available for work in chemical engineering, engineering physics, and engineering economics. Students may also use this curriculum as an undergraduate preparation for additional work in certain graduate engineering colleges. Students who desire to prepare for teaching of engineering and allied subjects in the secondary schools and the junior colleges may use this curriculum, along with certain courses in education, to satisfy the undergraduate requirements for the general secondary credential.

The curriculum is not a specialized sequence of course work in specific engineering fields. If such specialized training is desired in the engineering fields, transfer to various colleges offering such work is recommended after completion of the lower division.

The high school program should include the following subjects: elementary algebra, 1 (year) unit; plane geometry, 1 unit; algebraic theory, 1 unit; solid geometry, $\frac{1}{2}$ unit; trigonometry, $\frac{1}{2}$ unit; chemistry, 1 unit; physics, 1 unit; mechanical drawing, 1 unit; foreign language, 2 units in one language.

LOWER DIVISION

All college requirements for the A.B. degree must be met except foreign language.

FRESHMAN YEAR	Units	SOPHOMORE YEAR	Units
Chemistry 1A-1B -----	10	Physics 1C-1D -----	6
Physics 1A-1B -----	6	Mathematics 4A-4B -----	6
Mathematics 3A-3B -----	6	Electives chosen from the	
English -----	6	following -----	9
Social Science 1A -----	3	Engineering 1A-1B	
Health Education -----	2	Engineering 21	
Physical Education -----	1	Engineering 22	
	—	Geology 1A	
	34	Chemistry 7-8	
		*Social Science -----	6
		Physical Education -----	1
		**Electives -----	3
			—
			31

* Recommended Economics 1A-1B.

** See lower division requirements, page 24.

UPPER DIVISION

During the first semester of his junior year the student must prepare and submit for approval of his advisors a tentative program for the remainder of his undergraduate work.

Complete lower division requirements. (See page 24.)
Political Science 101.

Complete the following major in General Engineering: a total of 36 upper division coordinated units in three departments chosen from the following list (not more than 15 units may be chosen from one department).
The organization of the program of each major student must follow a definite plan approved by the proper advisors. Additional courses will be added from time to time.

Required of all students (20 units) :

	Units
Engineering 100A-100B, Electrical Engineering -----	6
Engineering 105, Hydraulics -----	3
Engineering 123, Materials of Engineering Construction-----	2
Engineering 128, Heat Power Engineering -----	3
Physics 105A-105B, Analytical Mechanics -----	6

Electives: 16 units, of which at least 6 units must be chosen from one of the following departments: chemistry, geology, astronomy, mathematics, or economics.

Chemistry 110A-110B, Physical -----	6
Chemistry 105A, Quantitative Analysis -----	3
Chemistry 112A-112B, Industrial Chemistry -----	6
Chemistry 144, Industrial Analysis -----	3
Physics 110A, Adv. Electricity -----	3
Physics 110B, Electromagnetism-electronics -----	3
Physics 107A-107B, Electrical Measurements -----	2
Physics 108, Modern Physics -----	3
Physics 112, Advanced Heat-Thermodynamics -----	3
Physics 112L, Heat-Pyrometry Lab. -----	1
Physics 114, Acoustics -----	3
Geology 100, Structural Geology -----	3
Geology 101, Problems in Geology -----	4
Astronomy 100, Navigation-Astronomy -----	3
Astronomy 107, Least Squares -----	3
Mathematics 118, Advanced Calculus -----	3
Mathematics 119, Differential Equations -----	3
Mathematics 124, Vector Analysis -----	3
Mathematics 140, Probability-Statistics -----	3
Economics 107, Credit and Credit Institutions-----	3
Economics 121, Business Administration -----	3
Economics 123, Principles of Marketing -----	3
Economics 131, Public Finance and Taxation-----	3
Economics 133, Corporation Finance -----	3
Economics 135, Money and Banking -----	3
Economics 140, Statistical Methods -----	3
Economics 150, Labor Problems and Industrial Relations-----	4
Economics 171, Transportation -----	3
Industrial Economics -----	3
(Economics 14A-14B recommended)	

Certain courses of the Engineering Defense Training Program, sponsored by the University of California Extension Division but given at the San Diego State College, are available for credit toward this engineering major. Students desiring an evaluation of credits taken under this program should present to the registrar a certificate of completion of the course work taken and request an evaluation of the work in terms of units toward the satisfaction of this curriculum. Students may be required to take an examination on the course work as a part of this evaluation.

A student who desires to satisfy the undergraduate requirements for the general secondary teaching credential should include in his upper division work, in addition to the engineering major, certain courses in education which will partially satisfy the credential requirements. In order to conform to the usual university requirements this work should be chosen from Education 102A-102B and Education 115A-115B. Consultation with the Dean of Education or the Dean of Liberal Arts is recommended.

Public Service Curricula—Public Administration

As the vocational demand for students of public administration is comparatively limited the student of public administration will do well to prepare himself also for a related field of work for which there is not only a cultural but also a vocational demand. The candidate for a public administrative position who is equipped for a career in a professional, scientific or technical field that is common to both public and private enterprise has a distinct advantage. The special courses in public administration listed in the following curriculum are supplementary courses designed for exploration and orientation. The curriculum as a whole provides for a major in economics, outlines a general preparation for the public service in social science fields and furnishes a basis for more highly specialized graduate courses in the field of public administration.

The high school program should include the following subjects: elementary algebra, 1 (year) unit; plane geometry, 1 unit; intermediate algebra, 1 unit; foreign language, 3 units in one language or 2 units in each of two languages.

The following arrangement of courses is recommended:

FRESHMAN YEAR	Units		SOPHOMORE YEAR	Units	
Physical Education -----	$\frac{1}{2}$	$\frac{1}{2}$	Physical Education -----	$\frac{1}{2}$	$\frac{1}{2}$
Health Education 1 or 2 ---	2	--	*Additional Natural Science (if needed to meet requirements) -----	3	--
*English -----	3	3	*Additional year course--	3	3
*Foreign Language (if needed to complete requirements) -----	3-5	3-5	Economics 1A-1B -----	3	3
*Natural Science -----	3-5	3-5	Political Science 1A-1B or 71A-71B -----	3	3
Economics 14A-14B -----	3	3	Psychology 1A -----	--	3
Electives -----	0-5	0-3	Electives -----	4	3
	<hr/> 16 $\frac{1}{2}$ 15 $\frac{1}{2}$			<hr/> 16 $\frac{1}{2}$ 15 $\frac{1}{2}$	

* See lower division requirements, page 24.

JUNIOR YEAR	Units	SENIOR YEAR	Units
Economics 100-----	3 --	Economics 150-----	-- 3
Economics 140-----	-- 3	Economics 199A-199B ---	1 2
Economics 102-----	-- 3	Economics electives -----	3 3
Economics 131-----	3 --	Political Science 143A-	
Political Science 175A-		143B -----	3 3
175B -----	3 3	Electives ¹ -----	9 3
Electives ¹ -----	6 6		
	<hr/>		<hr/>
	15 15		16 14

Public Service Curricula—Clerical and Fiscal Service

The curriculum in Clerical and Fiscal Service leads to the A.B. degree with a major in commerce. It outlines a course of training for clerical and clerical-executive service in accounting and auditing, budgeting, statistical work and miscellaneous financial and fiscal work.

The high school program should include the following subjects: elementary algebra, 1 (year) unit; plane geometry, 1 unit; intermediate algebra, 1 unit; foreign language, 3 units in one language or 2 units in each of two languages.

FRESHMAN YEAR	Units	SOPHOMORE YEAR	Units
Physical Education -----	$\frac{1}{2}$ $\frac{1}{2}$	Physical Education -----	$\frac{1}{2}$ $\frac{1}{2}$
Health Education 1 or 2--	2 --	*Additional Natural Sci-	
*English Composition ---	3 3	ence (if needed to meet	
*Foreign Language (if		requirements) -----	3 --
needed to complete re-		Economics 1A-1B -----	3 3
quirement of 10 units) _0-5	0-5	Economics 14A-14B -----	3 3
*Natural Science -----	3-5 3-5	Political Science 1A-1B	
Mathematics D and Eco-		or 71A-71B -----	3 3
nomics 2-----	3 3	Psychology 1A -----	-- 3
Electives ² -----	0-5 0-6	Electives ² -----	4 3
	<hr/>		<hr/>
	16 $\frac{1}{2}$ 15 $\frac{1}{2}$		16 $\frac{1}{2}$ 15 $\frac{1}{2}$

JUNIOR YEAR	Units	SENIOR YEAR	Units
Economics 121-----	3 --	Economics 161-----	3 --
Economics 131-----	3 --	Economics 167-----	-- 3
Economics 140-----	-- 3	Economics 199A-199B ---	1 2
Economics 160A-160B ---	3 3	Political Science 143A-	
Political Science 101-----	2 --	143B -----	3 3
Electives ³ -----	4 9	Electives ³ -----	9 6
	<hr/>		<hr/>
	15 15		16 14

* See lower division requirements, page 24 and ff.

¹ See minor requirements, page 27. Students who desire to prepare for a graduate major in political science should elect Political Science 111 and 113 and may satisfy requirements for a major in economics by substituting Political Science 143A-143B for elective courses in economics.

² Recommended electives: Economics 18A-18B and Secretarial Training 3A.

³ See minor requirements, page 27.

Public Service Curricula—Social Work

The professional curriculum in social service prepares for admission to graduate work in recognized American schools of social work. This curriculum should be pursued by those who plan careers in federal, state and local welfare work; social work in public schools including preparation for a teaching credential; family and children's private case work agencies; social settlement work; county probation work; child welfare agencies; statistical and investigational work in private and public agencies; work in public institutions for the defective and delinquent; medical social service and psychiatric social work in hospitals and clinics; executive positions in social work; and social work in numerous other organizations.

The lower division requirements of the Liberal Arts curricula include the general requirements of recognized professional schools of social work and should therefore ordinarily be met in full. However, a student who has definitely decided not to become a candidate for a degree in San Diego State College may substitute the lower division requirements of the institution to which he expects to transfer wherever the requirements differ.

A student who pursues a four-year curriculum in San Diego State College should major in Social Science and minor in Psychology and in a second field of his own choice.

The following subjects should be completed in high school: elementary algebra, 1 (year) unit; plane geometry, 1 unit; algebraic theory, 1 unit; trigonometry, $\frac{1}{2}$ unit; foreign language, 3 units in one language or 2 units in each of two languages.

Following is a recommended arrangement of courses:

FRESHMAN YEAR		Units	
Physical Education-----	$\frac{1}{2}$	$\frac{1}{2}$	
Health Education 1 or 2_	2	--	
Biology 10A-10B -----	3	3	
*Foreign Language (if needed to complete re- quirement) -----	3-5	3-5	
Psychology 1A -----	--	3	
Speech Arts 1A-1B or *English elective-----	3	3	
Electives ¹ -----	2-5	2-4	
	<hr/>	<hr/>	
	16 $\frac{1}{2}$	16 $\frac{1}{2}$	
SOPHOMORE YEAR		Units	
Physical Education -----	$\frac{1}{2}$	$\frac{1}{2}$	
Economics 1A-1B -----	3	3	
Political Science 1A-1B or 71A-71B -----	3	3	
*Additional Year Course_	3	3	
*Additional Natural Sci- ence (if needed to meet requirement) -----	3	--	
Sociology 50A -----	3	--	
Sociology 50B ² -----	--	3	
Electives ¹ -----	--	3	
	<hr/>	<hr/>	
	15 $\frac{1}{2}$	15 $\frac{1}{2}$	

See lower division requirements, page 24 and ff.

Recommended electives: Economics 14A-14B, 6 units; Psychology 4A, 3 units.

*Sociology 100 may be substituted in the junior year.

JUNIOR YEAR		Units		SENIOR YEAR		Units	
Economics 100B or 131 or 150	---	3	---	Economics 140	---	3	---
Sociology 105	---	3	---	Sociology 197	---	3	---
Sociology 109	---	3	---	Sociology 199A-199B	---	1	2
Psychology 118	---	3	---	Psychology 145	---	---	3
Psychology 150	---	3	---	Political Science 143A-143B or restricted elective	---	3	3
Zoology 114A	---	2	---	Electives ¹	---	5	7
Political Science 101	---	2	---				
Electives ¹	---	5	6				
		15	15			15	15

Public Service Curricula—Inter-American Relations

The purpose of this curriculum is (1) to furnish a basis for a more intelligent and effective understanding of the opportunities and problems of international relations in the western hemisphere; (2) to provide facilities for a basic education and training for a business or professional career which involves international relations.

Competition for opportunities of service in international affairs is severe. The student who plans a career in this field should therefore organize his electives to provide for a concentration in some area of work in which there are greater vocational opportunities. Preparation for employment as a foreign representative of an American business organization implies concentration in economics. The student who pursues this curriculum as a guide for training for the foreign service in consular, vice consular, secretarial, and other public offices should include additional courses in foreign language, history, political science, geography, and economics to furnish more effective preparation for the comprehensive competitive examinations required for appointment to the Service and for entrance to the Foreign Officers Training School at Washington, D. C.

The proper faculty adviser should be consulted for revisions and additions to this curriculum to meet individual needs and objectives.

The high school program should include the following subjects: algebra, 1 (year) unit; plane geometry, 1 unit; intermediate algebra, 1 unit; foreign language, 3 units in one language or 2 units in each of 2 languages.

¹ Recommended electives: Anthropology 152, 3 units; Economics 102, 131, 150, 3 units each; History 171A-171B, 6 units; Sociology 106, 108, 193, 3 units each.

See minor requirements and U. S. Constitution requirement, page 27.

The following arrangement of courses is recommended:

FRESHMAN YEAR		Units		SOPHOMORE YEAR		Units	
Physical Education-----		$\frac{1}{2}$	$\frac{1}{2}$	Physical Education-----		$\frac{1}{2}$	$\frac{1}{2}$
Health Education 1 or 2----		2	--	*Additional Natural Sci-			
English-----		3	3	ence (if needed to meet			
Spanish-----		3-5	3-5	requirements)-----		0-3	--
Natural Science-----		3-5	3-5	*Additional year course			
History 8A-8B (North				(foreign language)----		3	3
and South America)----		3	3	Economics 1A-1B (Princi-			
Electives-----		0-5	0-3	ples)-----		3	3
		16 $\frac{1}{2}$	15 $\frac{1}{2}$	Political Science 1A-1B			
				(Comparative Govern-			
				ment) or 71A-71B			
				(American Government)		3	3
				Psychology 1A (General)		--	3
				Geography (Elements)---		3	--
				Electives-----		1-4	3
						16 $\frac{1}{2}$	15 $\frac{1}{2}$
JUNIOR YEAR		Units		SENIOR YEAR		Units	
Political Science 141				Economics 196 (Interna-			
(Theories of Interna-		3	--	tional Relations in			
tional Relations)-----				Western Hemisphere)--		--	3
Political Science 142 (In-				Economics 199A-199B			
ternational Organiza-		--	3	(Special Study--West-		1	1-2
tion)-----				ern Hemisphere)-----			
History 173A-173B (Ex-		3	3	History 161 (South			
pansion of the United				America Since Inde-		--	3
States)-----				pendence)-----			
Spanish 104A-104B				History 163 (Mexico and		3	--
(Spanish-American Lit-		3	3	the Caribbean Coun-			
erature)-----		6	6	tries)-----		--	3
Electives ¹ -----		15	15	Geography 116 (Latin			
				America)-----		--	3
				Geography 121 (North		3	--
				America)-----		9	3-4
				Electives ¹ -----			
						16	14

Public Service Curricula—Foreign Service

The curriculum of training for the foreign service in consular, vice-consular, and other offices is available on request. This curriculum outlines preparation for competitive examinations required for appointment to the service and for entrance to the Foreign Officers' Training School at Washington, D. C.

See lower division requirements, page 24.

- (a) Restricted electives: The social science major or the general major recommended. The social science major requires 24 units of upper division work, including a concentration of 12 units in one social science and 6 units in each of two others. See also minors requirement, page 27. The general major requires 36 units of upper division work in any three fields, subject to departmental approval. Not more than 15 units in any field will be counted as part of the major. Minors requirement may be included in the general major.
- (b) Free electives—Recommended: Aesthetics 51 (Survey of Latin-American Art), Anthropology 151B (Middle American Indian), English 104 (Survey of Latin-American Literature).

Curriculum in Journalism

A broad, cultural education, and specific information and understanding in fields with which the journalist is largely concerned, are essential to an effective training for journalism. Introductory training in the principles and practices of journalistic writing are offered only after a good foundation in correct speaking and writing of English has been laid.

Practical training in news reporting and editing for student publication and for the daily and weekly press is emphasized.

The high school program should include the following subjects: elementary algebra, 1 (year) unit; plane geometry, 1 unit; foreign language, units in one language or 2 units in each of two languages; English, units; natural science, 1 or 2 units in the junior or senior year.

Following is a recommended arrangement of courses:

FRESHMAN YEAR		Units	SOPHOMORE YEAR		Units
Physical Education-----		$\frac{1}{2}$ $\frac{1}{2}$	Physical Education-----		$\frac{1}{2}$
Health Education-----		2 --	Economics 1A-1B or Political Science 1A-1B or 71A-71B-----		3 3
*English-----		3 3	Journalism 51A-51B-----		3 3
History 4A-4B or 8A-8B or Political Science 1A-1B or 71A-71B-----		3 3	*Philosophy 5A-5B (if needed to complete additional year course requirement)-----		3 3
*Foreign Language (if needed to complete requirement)-----		0-5 0-5	*Natural Science-----		3 3
Journalism 10A-10B-----		1 1	Psychology 1A-----		3 --
Electives ¹ -----		0-5 0-6	Social Science 1-----		-- 3
		<hr/>	Electives ² -----		1 --
		16 $\frac{1}{2}$ 15 $\frac{1}{2}$			<hr/>
					16 $\frac{1}{2}$ 15
JUNIOR YEAR		Units	SENIOR YEAR		Units
Major ³ (including English 112)-----		9 9	Major ³ -----		9 9
Journalism 151A-151B--		1 1	Journalism ⁴ -----		2 2
Journalism ⁴ -----		2 2	Journalism 199-----		-- 2
Electives-----		3 3	Political Science 101 (if not included in the major)-----		2 --
		<hr/>	Electives-----		2 2
		15 15			<hr/>
					15 15

* See lower division requirements for junior standing, page 24 and ff.

¹ Recommended electives: Aesthetics 1A-1B, 4 units; Aesthetics 5, 2 units; Anthropology 50A-50B, 6 units; Geography 2, 3 units; Sociology 50A-50B, 6 units; Secretarial Training, L2A, or equivalent; Speech Arts 1A, 3 units.

² Recommended electives: Journalism 153A-153B, 2 or more units.

³ The social science major or the general major recommended. The social science major requires 24 units of upper division work, including a concentration of 12 units in one social science and 6 units in each of two others. See also minors requirement, Bulletin page 27. The general major requires 36 units of upper division work in any three fields, subject to departmental approval. Not more than 15 units in any field will be counted as part of the major. Minors requirement may be included in the general major. English and one or more social sciences are required for the general major in the curriculum in Journalism.

⁴ Not more than six units of Journalism 153A-153B and L153A-L153B may be counted toward the A.B. degree and not more than four units of Journalism 153C-153D may be counted.

TWO-YEAR COMPLETION CURRICULA

These curricula are organized for students who have not yet qualified for enrollment in a four-year curriculum leading to the Bachelor of Arts degree, and for regularly qualified students who prefer a short college completion course of two years duration. Courses numbered L40 or L45 are not open to Regular and Provisional students.

The following special courses are designed for students enrolled in a two-year completion curriculum: Astronomy L40; Biology L40; English L40A, L40B, L45; Geography L40A, L40B; Geology L40; Mathematics L40A, L40B; Physical Science L40; Psychology L45; Social Science L40, L45; Sociology L40A, L45; Speech Arts L40.

Any other course designated by the prefix "L" (e.g. Art. L7) is regularly open to students enrolled in a two-year completion curriculum. See Limited Electives, page 26. The following courses are also regularly open to two-year students: Aesthetics 1A 1B, 2; Art 6A, 6B, 8A, 8B, 11A, 11B, L14A, 14B, 52A, 61B, 94A, B; Health Education 1, 2; Mathematics C, D, E, S; Music 1B, 11A, 11B, 11C, 11D, 12A, 12B, 12C, 12D, 13A, 13B, 13C, 13D, 15A, 15B, 15C, 15D, 20A, 20B, 20C, 20D, 26A, 26B, 26C, 26D, 27A, 27B; Occupations; Speech Arts 55A, 55B.

A two-year student may elect any other college lower division subject under guidance where his high school scholarship record, or his scores in the aptitude and achievement tests, or his subsequent college record indicate probable success in that field. He must, of course, meet all pre-requisites for the course under consideration.

Two-year Curriculum in Liberal Arts

FIRST YEAR	Units	Units	SECOND YEAR	Units	Units
	Sem. I	Sem. II		Sem. I	Sem. II
English L40A, or L40B and L40C	3	3	Speech Arts L40 or English L45	3	--
Physical Science L40 or equivalent**	3	--	Social Science (Economics L10A, Merchandising L20, Sociology L45, or Social Science Elective*)	3	--
Biological Science L40 or equivalent**	--	3	Social Science L45	--	3
Social Science L40	3	--	Psychology L45	--	3
Sociology L40	--	3	Elective*	9	10
Elective	5	5	Physical Education	$\frac{1}{2}$	$\frac{1}{2}$
Orientation	1	--			
Health Education 1 or 2	--	2			
Physical Education	$\frac{1}{2}$	$\frac{1}{2}$			
	15 $\frac{1}{2}$	16 $\frac{1}{2}$		15 $\frac{1}{2}$	16 $\frac{1}{2}$

* See foregoing list in italics.
 ** Not less than 6 units of natural science must be completed in college.

Two-year Curriculum in Art

		Units	Units			Units	Units
FIRST YEAR		Sem. I	Sem. II	SECOND YEAR		Sem. I	Sem. II
English	L40A, or L40B and L40C--	3	3	Social Science	L40 or equivalent ---	3	--
Physical Science	L40 or equivalent	3	--	Social Science	L45 -----	--	3
Biological Science	L40 or equivalent	--	3	Art Elective**	-----	9	9
Health Education	1			Elective*	-----	3	4
	or 2 -----	--	2	Physical Education	-----	$\frac{1}{2}$	$\frac{1}{2}$
Art	6A-6B -----	2	2			$15\frac{1}{2}$	$16\frac{1}{2}$
Aesthetics	5 or equivalent -----	2	--				
Art	A-B or equiva- lent -----	2	2				
Elective*	-----	3	4				
Physical Education	-----	$\frac{1}{2}$	$\frac{1}{2}$				
		$15\frac{1}{2}$	$16\frac{1}{2}$				

Two-year Curriculum in Music

		Units	Units			Units	Units
FIRST YEAR		Sem. I	Sem. II	SECOND YEAR		Sem. I	Sem. II
English	L40A, or L40B and L40C--	3	3	Social Science	L40 or equivalent ---	3	--
Physical Science	L40 or equivalent	3	--	Social Science	L45 -----	--	3
Biological Science	L40 or equivalent	--	3	Speech Arts or For- eign Language*--	3	3	3
Health Education	1			Music	4A-4B* or approved substi- tute -----	3	3
	or 2 -----	--	2	Applied Music	-----	1-2	1-2
Music	L1A-1B or equivalent -----	2	2	Elective (including at least 2 units of music)* -----	4-5	5-6	5-6
Aesthetics	1A-1B -----	2	2	Physical Education	-----	$\frac{1}{2}$	$\frac{1}{2}$
Music Elective*	-----	1	1			$15\frac{1}{2}$	$16\frac{1}{2}$
Applied Music	-----	1-2	1-2				
Elective*	-----	2-3	1-2				
Physical Education	-----	$\frac{1}{2}$	$\frac{1}{2}$				
		$15\frac{1}{2}$	$16\frac{1}{2}$				

* See list in italics on page 65.

** Art Elective: Art 8A-8B, 7, 11A-11B, 14A-14B, 15A-15B, 16A-16B, 52A, 94.

Merchandising

FIRST YEAR	Units	Units	SECOND YEAR	Units	Units
	Sem. I	Sem. II		Sem. I	Sem. II
English L8 -----	--	3	Merchandising L20_	3	--
Speech Arts L40----	3	--	Merchandising L24B	--	3
Secretarial Training			Merchandising L27_	--	3
LA -----	1	--	Economics 18A-18B	3	3
Secretarial Training			Economics L10A-		
L1A -----	3	--	L10B -----	3	3
Secretarial Training			Psychology L45 ---	3	--
L3A -----	--	3	Physical Education_	$\frac{1}{2}$	$\frac{1}{2}$
Economics L15A-			Social Science		
L15B -----	3	3	L45 -----	--	3
Merchandising L25_	3	--	Physical Science		
Merchandising L26_	--	2	L40 or Biological		
Art 7 -----	--	3	Science L40 or		
Biological Science			equivalent -----	3	--
L40 or equivalent			Elective* -----	1	--
or					
Physical Science				16 $\frac{1}{2}$	15 $\frac{1}{2}$
L40 or equivalent	3	--			
Health Education 1					
or 2 -----	--	2			
Physical Education_	$\frac{1}{2}$	$\frac{1}{2}$			
	16 $\frac{1}{2}$	16 $\frac{1}{2}$			

Accountancy

FIRST YEAR	Units	Units	SECOND YEAR	Units	Units
	Sem. I	Sem. II		Sem. I	Sem. II
Economics L15A-			Economics L65A-		
L15B -----	3	3	L65B -----	3	3
English L8 -----	--	3	Merchandising L20_	3	--
English Elective* --	3	--	Merchandising L24B	--	3
Secretarial Training			Secretarial Training		
LA -----	1	--	L3A -----	3	--
Secretarial Training			Economics 18A-18B	3	3
L1A-L1B -----	3	3	Economics L10A-		
Health Education 1			L10B -----	3	3
or 2 -----	--	2	Social Science		
Physical Science			L45 -----	--	3
L40 or equivalent	3	--	Elective* -----	--	1
Biological Science			Physical Education_	$\frac{1}{2}$	$\frac{1}{2}$
L40 or equivalent	--	3			
Elective* -----	3	1		15 $\frac{1}{2}$	16 $\frac{1}{2}$
Physical Education_	$\frac{1}{2}$	$\frac{1}{2}$			
	16 $\frac{1}{2}$	15 $\frac{1}{2}$			

* See list in italics on page 65.

Two-Year Curriculum in Pre-Aviation

A two-year course is available for students planning to enter flight training. Further information may be secured from the Registrar's office.

Two-Year Curriculum in Prenursing

A two-year course is available for students planning to enter nurses training. Further information may be secured from the Registrar's office.

Secretarial Training

FIRST YEAR	Units	Units	SECOND YEAR	Units	Units
	Sem. I	Sem. II		Sem. I	Sem. II
Economics L16A-			Physical Science		
L16B -----	3	3	L40 or equivalent	3	--
Secretarial Training			Biological Science		
LA -----	1	--	L40 or equivalent	--	3
English L8 -----	3	--	Economics 18A-18B	3	3
English Elective*--	--	3	Economics L10A-		
Secretarial Training			L10B -----	3	3
L1A-L1B -----	3	3	Secretarial Training		
Secretarial Training			L6A-L6B -----	3	3
L5A-L5B -----	5	5	Secretarial Training		
Health Education 1			L3A -----	3	--
or 2 -----	--	2	Social Science		
Physical Education--	$\frac{1}{2}$	$\frac{1}{2}$	L45 -----	--	3
			Elective* -----	--	1
			Physical Education--	$\frac{1}{2}$	$\frac{1}{2}$
	<u>15$\frac{1}{2}$</u>	<u>16$\frac{1}{2}$</u>		<u>15$\frac{1}{2}$</u>	<u>16$\frac{1}{2}$</u>

* See list in italics on page 65.

JUNIOR COLLEGE COMPLETION CURRICULA

**OFFERED IN COOPERATION WITH THE SAN DIEGO CITY
SCHOOLS**

The Junior College is maintained on this campus in order that a two-year program of general education on the college level may be available to students in this area who are not eligible for admission to the San Diego State College. Courses are offered which emphasize fundamental skills in spoken and written expression, problems of American living, and practical psychology. Although a student may qualify for admission to the San Diego State College through a demonstration of strong scholarship on this level, no degree credit is given for work completed in the Junior College.

Anyone interested in further details regarding the offerings, aims and objectives of the Junior College may procure a copy of the Bulletin of the San Diego Junior College. This publication may be obtained by addressing a request to the Registrar of the San Diego State College.

COURSES OF INSTRUCTION

Figures in parentheses indicate the unit value of the course.

Courses numbered from 1 to 99 are lower division (freshman or sophomore) courses; those numbered 100 and above are upper division (junior or senior) courses. The prefix "L" is used to denote courses which are classified as limited electives for students enrolled in the liberal arts curricula. See page 27. Students may not ordinarily apply more than a total of twelve units of credit, earned in courses so designated, toward the requirements for the bachelor of arts degree. The prefix "E" indicates courses which are offered through the Extension service, and "S" denotes courses which are available during the Summer Session.

Freshmen are not admitted into upper division courses.

A sophomore may enroll in an upper division course for lower division credit provided he has earned an average grade of not less than 1.5 grade points in all college work undertaken, and provided he receives the instructor's permission to enroll in the course. A second semester sophomore may enroll in an upper division course for upper division credit without the foregoing grade limitations provided the units earned in the upper division course or courses are in excess of the sixty units required in the lower division.

One "unit" represents an hour recitation or lecture, together with the required preparation, or three hours laboratory work each week for a semester of 18 weeks.

The semester in which courses are offered is designated as follows: (1) Fall; (2) Spring; (3) Fall and Spring; (4) Year course, beginning either Fall or Spring; (5) Year course. Courses designated as "Year course" begin in the Fall, but those given in the list below may be taken in the reverse order (i.e., the second semester of the course may be taken before the first semester) or the second semester may be taken alone. In the case of other year courses, students who have completed the equivalent of the first semester's work may seek permission from the instructor to take the second half of the course.

AESTHETICS

Year Courses Open to Registration in the Middle of the Year

Aesthetics 1A-1B	Spanish 105A-105B
Aesthetics 102A-102B	Spanish 110A-110B
Anthropology 50A-50B	History 4A-4B
Anthropology 151A-151B	History 8A-8B
Economics 160A-160B	History 111A-111B
English 30A-30B	History 121A-121B
English 52A-52B	History 146A-146B
English 56A-56B	History 151A-151B
English 106A-106B	History 156A-156B
English 107A-107B	History 171A-171B
English 117A-117B	History 173A-173B
French 101A-101B	Merchandising L24A-L24B
French 105A-105B	Political Science 1A-1B
French 107A-107B	Political Science 71A-71B
French 110A-110B	Political Science 175A-175B
French 111A-111B	Speech Arts 55A-55B
Spanish 101A-101B	Speech Arts 55C-55D
Spanish 102A-102B	Speech Arts 155A-155B
Spanish 104A-104B	Speech Arts 156A-156B

Although the College fully expects to carry out the arrangements planned in the list of courses, it reserves the right to make changes. Classes in which the enrollment does not come up to the minimum number set by the State Department of Education may not be offered or may be postponed.

AESTHETICS

LOWER DIVISION COURSES

1A-1B Survey of Music

Springston

Correlation of music and other arts. Designed to stimulate enjoyment of music by developing intelligent listening. The elements of music, its structure, folk music of all countries, musical instruments, and the contributions of the best known composers, with some biographical study of these men. Compositions are presented by orthophonic recording and by class members. Attendance at a number of local concerts is required. No previous musical training or background is necessary. Music majors are required to complete additional assignments for full credit.

Year course (2-2)

5 Fundamentals of Art

Jackson

An illustrated lecture course involving a study of aesthetic meaning and its relation to the structure of art products. Designed to increase both understanding and appreciation of the visual world in general and of the fine arts in particular.

Fall and Spring (2)

50 Appreciation and History of Art

Jackson

A survey of aesthetic development as revealed in the painting, sculpture, architecture, and handicrafts from dawn of art to the Renaissance. Illustrated.

Fall (2)

ANTHROPOLOGY

51 Survey of Mexican Art

Jackson

A study of Mexican and Middle American Art from earliest time to present.

Fall (2)

UPPER DIVISION COURSES

102A-102B History of Music

D. F. Smith

The various movements in the development of music as related to the other arts. The chronological development of the art of music, with particular emphasis on the larger works. Considerable attention is given to the works of modern composers. Many symphonic works are studied from the orchestral scores. Music majors are required to complete additional assignments for full credit. Prerequisite: Aesthetics 1A or 1B.

Year course (2-2)

150 Appreciation and History of Art

Jackson

The period from the Renaissance through the modern school, treated in the same manner as in Aesthetics 50.

Spring (2)

ANTHROPOLOGY

Lower division preparation for the liberal arts major in social science with concentration in anthropology: Anthropology 50A-50B, Sociology 50A, 50B, Geography 1, 2. Recommended: Geology 1A-1B, Economics 1A-1B. See requirements for the social science major, page 141.

LOWER DIVISION COURSES

50A-50B Man's Evolutionary History

Rogers

Origin and antiquity of man. Theories of human descent. Classification of races. Origin and early development of civilization.

Year course (3-3)

54 Social Anthropology

Rogers

An anthropological study of social institutions in primitive and civilized societies. The evolution of family organization, religion, property right, and government traced in elementary and advanced civilization.

Spring (3)

55 Culture History

Rogers

The prehistoric and historic development of culture types contributing to Western European and American civilization of today. Egyptian, Semitic, Indo-European, and Oriental cultures examined in light of their bearing on contemporary civilization. Methods of culture spread examined and applied to specific traits. Spengler's theory of history and similar doctrines reviewed.

Fall (3) (Not offered in 1942-43)

ART

UPPER DIVISION COURSES

- 151A The American Indian: North American** Rogers
Pre-Columbian cultures of the North American Indian. The origin and migration of New World peoples. Industries, arts, crafts, social organization, religion and other phases of American Indian civilization.
Fall (3) (Offered in 1943-44 and alternate years)
- 151B The American Indian: Middle America** Rogers
The development of civilization in Pre-Columbian Mexico and Central America: Aztec, Mayan, and related cultures.
Spring (3) (Offered in 1943-44 and alternate years)
- 152 Primitive Cultures (Ethnography)** Rogers
History and cultural development of primitive races of mankind. Consideration given to industries, arts, social organization, and religion of preliterate culture groups.
Fall (3) (Offered in 1942-43 and alternate years)
- 153 Primitive Religion** Rogers
Beliefs and ritual of primitive man. Magic and religion. Forms of animism and polytheism. Primitive mentality and the supernatural.
Spring (3) (Offered in 1942-43 and alternate years)
- 157 Primitive Myths and Rituals** Rogers
The folklore, mythology, and rituals of primitive cultures in the Eastern Mediterranean area. The early beliefs and classic myths of the Egyptians, Assyrians, Babylonians, and Greeks.
Spring (3)

ART

Candidates for a teaching credential in art should refer to the statement "Admission to Teacher Training" on page 29.

Lower division preparation for the liberal arts major in art: Aesthetics 5 or 51 and 50; fourteen units carefully chosen from lower division art courses to meet the stated prerequisites for upper division work. These shall include Art A-B, 6A-6B, or the accepted equivalents, and two elective units in art.

Liberal arts major (upper division): Twenty-four upper division units. These shall include Art 112A, 115A-115B, 152A, 195, or the accepted equivalent; Aesthetics 150.

It is recommended that the students in meeting degree requirements and in choosing free electives, select from the following courses: Anthropology 151A-151B; English 106A-106B, 107A-107B, 117; French A-B; History 4A-4B, 111A-111B.

For courses in Appreciation and History of Art and Fundamentals of Art, see Aesthetics, page 71.

ART

LOWER DIVISION COURSES

A-B Freehand Drawing

Houser

Semester I: Problems involving perspective to develop ability to draw still life, furniture, exteriors, interiors, and the like.

Semester II: Outdoor sketching of landscape and figure, and studio work from still life and costume pose. Emphasis on composition and technique in the handling of various mediums, pencil, pen and ink, charcoal, pastel, and water color.

Year course (3-3)

6A Structure

Hamann, Patterson

Fundamentals of design and composition and theory of color. Basic course used as a prerequisite for all advanced work.

Fall and Spring (2)

6B Structure (continued)

Jackson, Patterson

Original work in creative design and representation with special stress on modern tendencies. Prerequisite: Art 6A.

Fall and Spring (2)

L7 Line, Color and Display

Patterson

The principles of line, color and arrangement applied to store and window display. Study and observation of windows, color and materials used in display. Building models and practical problems in arranging colors, textures, and forms in windows to fit different kinds of merchandise.

Fall and Spring (2)

8A-8B Appreciation of Costume and Home Furnishing

Patterson

8A A survey of the periods of costume and home furnishing from primitive man to the present time.

Fall (2)

8B Lectures, discussions, and demonstrations on the underlying principles of dress and home furnishing. (a) A study of the design, color, texture, fabric, and fashion in modern dress with emphasis on suitability to the figure, the personality and the occasion. (b) Line, form, color, texture, fabric, and lighting in relation to the home; the selection and arrangement of furniture, rugs, fabrics, pictures, etc., for all rooms of the home.

Spring (2)

11A Industrial Design

Hamann

Original design in its relationship to various fields—ceramics, furniture, textiles, jewelry, and books. A survey and study of materials and processes in machine and hand production. Prerequisite: Art 6A-6B.

Fall (2)

ART

11B Advanced Industrial Design

Hamann

Advanced problems with emphasis upon the related factors of material and production. Application of problems designed. Prerequisites: Art 6A-6B, 11A.

Spring (2)

L14A Lettering

Houser

Fundamental art principles applied to lettering. Practice for quick, accurate lettering; original problems using letters as design. Prerequisite: Art 6A.

Fall (2)

14B Posters and Commercial Art

Houser

The application of lettering to posters, newspaper and magazine advertising, and other forms of commercial art. The study of composition combined with lettering and special study of modern tendencies in publicity. Prerequisites: Art 6A, 14A.

Spring (2)

15A-15B Life Drawing

Jackson

Drawing from the nude model. Prerequisite: Art A-B.

Year course, beginning either Fall or Spring (2-2)

16A-16B Painting

Jackson

Semester I: Composition of still life and flower forms in water color and oil. Semester II: Landscape and more advanced composition in water color and oil. Prerequisite: Art A-B.

Year course, beginning either Fall or Spring (3-3)

52A Stage Design

Patterson

Theory of line, color, and lighting in relation to the stage. Original sets and costumes developed on a miniature stage. Study of the development of the modern art of the theater. Upper division credit will be given in this course to students of junior standing upon the completion of extra theme work and additional original problems. Prerequisite: Art 6A.

Fall (2)

Art 61A Fine and Industrial Arts

Soulé

A foundation course which develops unification of work of the elementary grades through activities and experiences. These experiences grow out of environmental activities. They include study and working of clay, lumber and tools, textiles, and cardboard construction. Prerequisite: Art 6A.

Fall and Spring (2)

61B Elementary Crafts

Hamann

Problems involving the application of design principles to various fields—pottery, textiles, weaving, metal work, wood-carving, and book-binding. Prerequisite: Art 6A.

Fall and Spring (2)

ART

94 Costume Design

Patterson

Original designs of modern costumes suitable to the individual or to distinct types; the drawing of fashion figures; the rendering of fabrics and textures. Prerequisite: Art 6A.

Spring (2)

95 Home Decoration (*See Art 195*)

Patterson

UPPER DIVISION COURSES

106A-106B Printmaking

Houser

Study of print crafts which includes the making of linoleum blocks, wood engravings, etchings and lithographs. Prerequisites: Art A, B, 6A.

Year course (2-2)

106C Illustration

Houser

Same as 106A-B except that printmaking is applied to problems of book illustration. Prerequisites: Art A, B, 6A.

Spring (2) (Offered in 1942-43 and alternate years)

112A-112B Organization

Houser

Imaginative organization of space by means of color, dark and light, perspective, and textures of various materials. Prerequisites: Art A-B, 6A-6B, and if possible 15A-15B or 106A.

Year course (3-3)

115A-115B Life Drawing and Painting

Jackson

Drawing and painting from nude and costume models.

Year course, beginning either Fall or Spring (2-2)

115C-115D Advanced Life

Jackson

Painting from nude and costume models and advanced composition in oil. Portraiture. Prerequisite: Art 115A-115B.

Year course, beginning either Fall or Spring (2-2)

116A-116B Advanced Painting

Jackson

Painting in water color and oils from still life and landscape, stressing composition and technique. Prerequisite: Art 16A-16B.

Year course, beginning either Fall or Spring (3-3)

152A Stage Design

Patterson

See Art 52A.

152B Stage Costume

Patterson

Costume studied in relation to drama, opera and dance. Original designs for mood and character. Practical problems in designing costumes and accessories for college productions. Prerequisites: Art 6A, 52A or 152A.

Fall (2)

ASTRONOMY

195 Home Decoration

Patterson

Lectures and designing in class, trips to art galleries, stores, factories and homes, studying how to recognize and choose the best in furniture, rugs, wall coverings, textiles and pottery as to design, color and materials. Actual experience in designing and arranging furnishings in homes and offices. Working with local stores and architects. Arrangement of flowers and objects for different types of rooms and occasions. Prerequisites: Art A, 6A.

Spring (2)

ASTRONOMY

Lower division preparation in Astronomy desirable for advanced work: Astronomy 1, 2, 3, and 9; Mathematics 3A-3B, 4A-4B; Physics 1A-1B and 1C-1D; a reading knowledge of French and German desirable.

LOWER DIVISION COURSES

1 Descriptive Astronomy

Krieger

A cultural course planned to develop an appreciation of astronomy with special emphasis on the solar system. Only calculations of an elementary nature are used. Especial attention given to the methods and instruments by means of which astronomical knowledge has been gained. A six-inch John Byrne refractor and an eight-inch reflecting telescope are available for observation. Prerequisites: Elementary algebra and plane geometry.

Fall and Spring (3)

2 Modern Astronomy

Krieger

A study of sidereal astronomy and astrophysics in the light of modern research, especially photographic and spectrographic. Prerequisite: Astronomy 1 and a knowledge of physics or permission of the instructor.

Note the designation of this course has been changed from 11 to 2.

Spring (3)

3 Surveyor's Course in Practical Astronomy

Krieger

The principles of spherical astronomy adapted to the needs of engineering students. Computation and observation. Prerequisites: Surveying 1A or permission of the instructor. Astronomy 1 and 9 desirable.

Spring (2) (Offered in 1943-44 and alternate years)

9 Practice in Observing

Krieger

A laboratory course designed particularly to go along with and to supplement Astronomy 1. The course will include constellation study, use of astronomical coordinates, elementary methods of determining time and latitude, and descriptive observations of celestial objects with the six-inch telescope. Prerequisite: Astronomy 1 or registration in Astronomy 1 or permission of the instructor.

Fall and Spring (1)

BACTERIOLOGY

12 Elementary Navigation

Krieger

A study of compass corrections, drift problems, time, line of position, use of celestial coordinates, Bowditch Tables, etc. A few class hours at the close of the term are devoted to the use of tables such as Ageton, Dreisonstok and H. O. 214 for the solution of astronomical triangle. Offered if demand is sufficient. Prerequisite: Astronomy 1 or permission of instructor.

Spring (2)

L40 Elementary Astronomy

Krieger, Watson

A survey course planned to acquaint the student with the more important facts pertaining to both the solar system and to the stars. The first part of the course is devoted to the study of the earth as an astronomical body and to the other planets. The latter part is devoted to a study of the sun and stars. *Open only to students enrolled in a two-year curriculum.*

Fall and Spring (3)

UPPER DIVISION COURSES

100 Special Problems

Krieger

Admission by consent of instructor. Credit and hours to be arranged in each case. Open to students who have completed three units in astronomy.

Fall and Spring (1 or 2)

105 Historic Development of Astronomy

Krieger

A study of the more important problems and astronomical concepts in the light of their historical development. Particular attention is given to the biography and contributions of the more important astronomers, such as, Galileo, Kepler, Newton, Herschel, and Bessel.

Spring (3) (Offered in 1942-43 and alternate years)

107 Method of Least Squares and Computing Practices

Krieger

Fundamental principles and processes and applications in the fields of astronomy, physics, and engineering.

Spring (3) (Offered in 1943-44 and alternate years)

BACTERIOLOGY

LOWER DIVISION COURSES

1 General

Darsie

An introduction to bacteriology. Effects of physical and chemical agencies upon bacteria; biochemical activities of bacteria; microscopic examination and cultivation of bacteria; the bacteria of air, water, soil, milk and dairy products, other foods; industrial applications. Introduction to disease-producing bacteria. Required of prenursing students. Reduced credit for students with credit for Bacteriology 6. Two hours of lecture and six hours of laboratory per week. Prerequisite: Chemistry 1A or 2A.

Spring (4)

BIOLOGY

3 Sanitary Water Bacteriology

Darsie

This course is presented with the cooperation of the San Diego City and County Health Departments and will consist of study of the principles and methods involved in the protection of the water supply. Course work will consist of one hour of lecture and at least five hours of laboratory per week. Several field trips are planned. No outside preparation will be required as the chief emphasis will be placed on the official analysis of samples taken from the local water supply system. A selected group of students will be chosen for this work. Prerequisite: Bacteriology 1 or 101, either completed or taken concurrently, and the consent of the instructor. Hours to be arranged at the convenience of students.

Fall and Spring (1)

6 Survey

Darsie

A cultural course for nontechnical students, stressing the practical applications of bacteriology to everyday life. Two hours of lecture per week. No prerequisites. Not open for credit to students who have credit for Bacteriology 1.

Spring (2)

UPPER DIVISION COURSES

101 General

Darsie

Lectures and laboratory work of Bacteriology 1 with an additional hour of seminar each week. Open only to upper division students by special arrangement.

Spring (4)

199 Special Study

Darsie

Work other than is outlined in the regular courses. Admission only by consent of the instructor with whom the work is to be done. Credit and hours to be arranged in each case. Open to students who have completed at least fifteen units of work in the department (including courses in Bacteriology and Chemistry) with grades of A or B.

BIOLOGY

LOWER DIVISION COURSES

1 Survey

Darsie

A survey of life science, stressing the development of modern concepts in the fields of plant and animal science, bacteriology, genetics, and physiology. Emphasis is placed on the relationships of biology to modern life and the application of scientific analysis to every day problems. Three lectures and one hour of demonstration and discussion per week. Not open to students with credit for Biology 10A-10B, Zoology 1A-1B, or Botany 2A-2B.

Fall or Spring (3)

10A-10B General

Lectures: Johnson

A year course in life science, more extensive than "Biology 1." Continues throughout the year and includes a three-hour laboratory period, and two hours of lectures per week. Designed for those who do not expect to specialize in zoology or botany; not open for credit to students who have taken Zoology 1A, Biology 1, or Botany 2A. Students who have taken 10A-10B may elect Zoology 1B or Botany 2A, 2B for credit.

Year Course (3-3) Begins in Fall only

BOTANY

L40 Man and His Biological World

Jannoch

A survey of the general field of biology with emphasis on the role of biological science in the welfare of man and his associates, consisting of three lectures and one demonstration period per week. Not open to students who have credit in high school biology, zoology, or botany. *Open only to students enrolled in a two year curriculum.*

Fall and Spring (3)

BOTANY

Lower division preparation for advanced work in botany: Botany 2A, 2B, 4, and Chemistry 1A, 1B, 8. Recommended: German, French, and elementary courses in other biological sciences.

LOWER DIVISION COURSES

2A General

Harvey

Fundamentals of structure and general behavior of seed plants. Two lectures or recitations and six hours of laboratory per week.

Fall (4)

2B General

Harvey

A continuation of 2A treating morphology and relationship of the lower plants and including an introduction to classification of seed plants. Lectures and laboratory as in 2A.

Spring (4)

4 California Plants

Harvey

Classification and ecology of representative orders of wild flowers, trees, and chaparral of the San Diego region, including practice in the use of keys. One lecture and three hours laboratory per week. Occasional Saturday field trips.

Spring (2)

5 Cultivated Trees and Shrubs

Harvey

Recognition of the common cultivated trees and shrubs of the San Diego region. Trips to local parks and private gardens. Three hours per week laboratory or field work.

Fall (1) (Offered in 1942-43 and in alternate years)

UPPER DIVISION COURSES

101 Cellular Physiology

Darsie

A study of the vital activities of protoplasm, stressing the various physiochemical relationships involved. Laboratory study of both plant and animal material will serve as an introduction to the methods of modern experimental biology. Two hours of lecture and three hours of laboratory per week. Prerequisite: One year of life science in college and three units of college chemistry. Additional training in chemistry and physics is desirable.

Fall (3) (Offered in 1942-43 and in alternate years)

CHEMISTRY

102 Plant Geography

Harvey

Lectures and field work on the principles of geographical distribution of plants. Prerequisite: Botany 2A-2B, or 4, or equivalent.

Fall (2) (Offered in 1943-44 and alternate years)

104 Taxonomy

Harvey

Identification, classification and distribution of representative orders of flowering plants. One hour of lecture and six hours per week of laboratory and field work. Prerequisites: Botany 2A-2B, or 4.

Spring (3) (Offered in 1943-44 and alternate years)

107 Plant Physiology

Darsie

The activities of plants, including food manufacture, absorption, conduction, transpiration, respiration, growth, and movement. Prerequisite: Cellular Physiology or equivalent.

(1-2) By arrangement

199 Special Study

The Staff

Work other than is outlined in the above courses. Admission by consent of the instructor with whom the work is to be done. Credit and hours to be arranged in each case. Open only to students who have completed at least fifteen units of Botany with a grade of A or B.

Fall and Spring (1 or 2)

CHEMISTRY

Lower division preparation for the liberal arts major in chemistry: Chemistry 1A-1B with an average grade of C or better, Chemistry 7-8, Physics 2A-2B and 3A-3B or their equivalent, Mathematics 3A-3B or the equivalent, and a reading knowledge of German. Students planning to do graduate work in chemistry or to transfer to another college, and there work for a degree with a major in chemistry, are advised to take Physics 1A-1B-1C-1D and Mathematics 3A-3B-4A-4B in place of the courses listed above.

Liberal arts major (upper division): A minimum of twenty-four upper division units in chemistry including Chemistry 105A-105B, 110A-110B and 111A-111B. The choice of related minors and the organization of the course of the major student must follow a definite plan approved by the department.

For requirements for liberal arts major in physical science, see page 131.

LOWER DIVISION COURSES

1A-1B General Chemistry

Robinson

The general principles and laws of chemistry, and a description of the elements and their compounds. Two lectures, one quiz and two laboratory periods per week. The laboratory work in the second semester consists of work in qualitative analysis. Prerequisites: At least two years of high school mathematics. Recommended: High school chemistry and physics.

Year course (5-5)

CHEMISTRY

2A-2B General Chemistry

Nichols

A general course for those not intending to take advanced courses in chemistry. The work in the first semester stresses inorganic chemistry and fundamental principles; that of the second semester covers an introduction to organic and biochemistry. Emphasis placed on applications of chemistry to everyday life. Two lectures and one laboratory period per week. Required of prenursing students and recommended for those desiring chemistry as part of a liberal education.

Year course (3-3)

7-8 Organic Chemistry

Robinson

A general consideration of the carbon compounds (both aliphatic and aromatic) and their derivatives; their synthesis, constitution, and properties, and the principles involved. Two lectures and one laboratory period per week first semester; one lecture and two laboratory periods per week second semester. Prerequisite: Chemistry 1A-1B.

Year course (3-3)

UPPER DIVISION COURSES

105A Quantitative Analysis

Messner

The principles of gravimetric and volumetric analysis. Discussions of the theory of quantitative analysis and practice in the standardization of reagents and analysis of samples. One lecture and two laboratory periods per week. Prerequisite: Chemistry 1A-1B.

Fall (3)

105B Advanced Quantitative Analysis

Messner

Advanced work in the theory and practice of volumetric, gravimetric and electro-analysis. One lecture and two laboratory periods per week. Prerequisite: Chemistry 105A.

Spring (3)

110A-110B Physical Chemistry

Nichols

Lectures and problems on theoretical principles of chemistry. Prerequisites: Physics 1A-1B or 2A-2B, a knowledge of calculus and Chemistry 105A which may be taken concurrently. With the approval of the instructor, advanced courses in physics may be substituted for Chemistry 105A.

Year course (3-3)

111A-111B Physical Chemistry—Laboratory

Nichols

Physico-chemical problems and measurements. Two laboratory periods per week. Prerequisites: Credit or registration in Chemistry 110A-110B.

Year course (2-2)

112A-112B Industrial Analysis

Robinson

A laboratory course including the analysis of fuels, petroleum products, water, and gas. Prerequisite: Chemistry 105A which may be taken concurrently.

(3-3) (Offered in 1943-44 and alternate years)

CHEMISTRY

114 Biochemistry

Messner

An introductory lecture course covering the carbohydrates, proteins, fats and the changes which they undergo in digestion and metabolism as well as a consideration of the vitamins and other accessory food factors and their importance to the body. A brief discussion of the chemistry of plant life. Prerequisites: Credit or registration in Chemistry 7, 8.

Fall (3) (Offered in 1943-44 and alternate years)

118 Colloid Chemistry

Messner

A lecture course covering the theoretical principles of colloid chemistry and the preparation, properties and practical applications of colloids. Prerequisite: Chemistry 7-8.

Fall (2) (Offered in 1942-43 and alternate years)

123-124 Organic Preparations

Robinson

A laboratory course illustrating some of the more important synthetic methods of organic chemistry. Laboratory and conferences. Prerequisite: Chemistry 7-8. A reading knowledge of German recommended.

Beginning either Fall or Spring (1 to 5-1 to 5)

125 History of Chemistry

Robinson

Development of the science of chemistry from the time of the alchemists to the present. Conducted on the reading, report, and seminar basis. Prerequisite: Chemistry 7, 8.

Fall (2) (Offered in 1943-44 and alternate years)

127 Advanced Inorganic Chemistry

Robinson

A detailed study of the Periodic Table. Discussion of complex inorganic compounds and oxidation-reduction potentials. Prerequisite: Chemistry 1A-1B and upper division standing.

Fall (2) (Offered in 1942-43 and alternate years)

144 Industrial Chemistry

Robinson

Industrial stoichiometry, flow sheets, flow of fluids and unit processes. Lectures, problems, and reports. Prerequisites: Chemistry 1A-1B, Physics 1A-1B or 2A-2B.

Spring (3) (Offered in 1943-44 and alternate years)

199 Special Topics

Instructors of the Department

Supervised individual work in specialized branches of chemistry. Admission only by the consent of the instructor. Hours and credit to be arranged in each case. Only open to upper division students who have shown their ability to do A or B work in Chemistry.

Fall and Spring (1-3)

ECONOMICS AND COMMERCE

COMMERCE

(See Economics and Commerce, below)

ECONOMICS AND COMMERCE

The department provides an opportunity for the student to choose between a major in economics and a major in commerce in satisfying the requirements for the Bachelor of Arts degree.

Economics *Lower division preparation for the liberal arts major in economics and for the junior certificate: Economics 1A-1B, 14A-14B and at least one of the following: Political Science 1A-1B or 71A-71B; History 4A-4B, 8A-8B; Psychology 1A and 1B; Sociology 50A-50B; Anthropology 50A-50B. Recommended: Economics 18A-18B, Geography 10A-10B.*

Liberal arts major in economics, 24 upper division units required as follows: Economics 100A, 140, 199, and 100B or 111, with 6 or more additional units selected from Economics 100B, 107, 111, 125, 131, 133, 135, 150, 171, and 195. Electives: Six or more additional upper division units in economics. Political Science 143A-143B may be substituted for elective units in economics.

Commerce *Candidates for a teaching credential in business education should refer to the statement "Admission to Teacher Training Curricula" on page 29 and to the curriculum for the A.B. degree with a special credential in Business Education on pages 39 to 40.*

Lower division preparation for the liberal arts major in commerce and for the junior certificate: Economics 1A-1B, 14A-14B, 18A-18B; English 1B, 2; Geography 10A-10B, Mathematics D, or equivalent, and Economics 2; History 4A-4B or 8A-8B or Political Science 1A-1B or 71A-71B.

Liberal arts major in commerce, 24 upper division units required as follows: Economics 111, 121, 140, 199 with 12 or more units additional chosen in one of the following groups:

A. Accounting: Economics 160A-160B, 161, 162.

B. Banking and Finance Economics 133, 135 and 6 units selected from Economics 107, 131, 134, 137.

C. Business Administration: 6 units selected from Economics 123, 125, 137, 142, 150. Electives: 6 or more additional upper division units in economics.

LOWER DIVISION COURSES

1A-1B Principles of Economics

Cameron, Jordan

The basic principles of economics: utility, wealth, value, price; economic production, distribution, and consumption; rent, interest, wages, and profit; competition, monopoly, and large scale production; property, economic waste, and luxury; money and banking, international trade and tariffs; transportation corporations, labor problems, socialism, taxation, etc. Aims of the course: (1) to provide a foundation for further intensive study of economic problems; (2) to furnish to those who expect to follow business pursuits a broad foundation in economic principles; and (3) to introduce future citizens to political and economic problems of our time. Lectures, discussions, quizzes, and collateral reading. Not open to entering freshmen except by special arrangement.

Year course (3-3)

ECONOMICS AND COMMERCE

2 Mathematics of Finance

Wright

Interest and annuities; amortization; sinking funds; valuation of bonds; depreciation; mathematics of building and loan associations; mathematics of life insurance. Prerequisites: Two years of algebra in high school, or equivalents.

Spring (3)

L10A-L10B Business Economics

Watenpaugh

A basic course in the general principles of business economics and the application of these principles to current problems of man's economic life. A coordinated description of economic conditions, circumstances and forces which are of general significance throughout the business world. The development of theory as an interpretation of and guide to practice. Emphasis placed on actual business and financial operations and matters of everyday business experience which may serve as guides for individual conduct and the development of social policy. Human wants and their satisfaction; organization and purpose of business; risks and insurance; how prices are determined; money, credit and banking; taxation; principles of consumption; government and business; wealth, value, capital, rent, interest profits; etc. Not open to freshmen.

Year course (3-3)

14A-14B Accounting

Wright

A knowledge of bookkeeping not required and not advantageous. The balance sheet; profit and loss statement; various types of books of original entry; the opening, conducting, and closing of books for different kinds of businesses; organizations, reorganizations, dissolutions, and consolidations, etc., keeping in view the best modern accounting practice. Five hours lecture and laboratory.

Year course (3-3)

L15A-L15B Elementary Accounting

Watenpaugh

An introductory course in the fundamental principles of accounting; recording business transactions; opening and closing books of different kinds of business in accordance with modern accounting practice; accounting theory combined with actual practice. Balance sheet; profit and loss statements; accounts; book of entry, etc. Planned for students entering accounting work who must confine their preparation to one or two years.

Year course (3-3)

L16A-L16B Secretarial Accounting

Watenpaugh

A course in secretarial accounting covering the fundamental principles of accounting and the application of these principles to the accounting work required by one employed in a secretarial capacity.

Year course (3-3)

18A-18B Commercial Law

The leading and fundamental principles of business law. Simple cases showing the actual application of the principles to commercial and business transactions, rather than the development of those principles. The subjects covered: contracts, sales, agency, partnerships, corporations, real property, negotiable instruments, insurance, and wills, with a brief study of evidence.

Year course (3-3)

ECONOMICS AND COMMERCE

L65A-L65B Record Keeping

Watenpaugh

An advanced course in the application of accounting theory and principles to accounting practice; the technical arrangement of accounting forms, records and reports found in business; advanced theory. Opportunity afforded students through the use of practice sets, etc. to secure practice in applying principles to actual work done in business. Prerequisite: Accounting 15A and B or 16A and B or Economics 14A and B. *Year course (3-3)*

UPPER DIVISION COURSES

100A Modern Economic Thought

Jordan

Review of schools of economic thought in the light of recent economic theory with special reference to value and distribution. Special attention is given to the marginal utility theory of value, to the contributions of the institutional economists, and to the work of statisticians in the development of economic theory. Prerequisite: Economics 1A-1B.

Fall (3)

100B Modern Economic Thought

Jordan

A problem course. Subjects include price theory; distribution with particular emphasis on income; effects of various kinds and degrees of competition and regulation; war economy and government planning. Recommended: Economics 100A.

Spring (3) (offered in 1943-44 and alternate years)

103 The Economics of War and Post-War Recovery and Reconstruction

A. G. Peterson

I. Backgrounds of the Present War; II, The Requirements of War Economy; III, International Recovery and Reconstruction; IV, National Recovery and Reconstruction.

Spring (3)

107 Credit and Credit Institutions

Jordan

A study of the economics of credit, its cost, and the agencies supplying credit. Special attention is given to the growth of government credit agencies and their place in modern economic society. Prerequisite: Economics 1A-1B. Recommended: Economics 100.

Spring (3) (offered in 1942-43 and alternate years)

111 Economic History of the United States

Wright

A comprehensive survey of American economic development and of national legislation in the field of industry.

Fall (3)

121 Business Administration

A. G. Peterson

Problems of business administration as an interrelated whole and as an indication of lines of study which may lead to the solution of those problems. A discussion of the problems of the business administrator with particular reference to the character of the problems involved and to the control policies and devices of the manager. Questions, problems, and case studies. Prerequisite: Economics 1A-1B.

Fall (3)

123 Principles of Marketing

Jordan

A survey of the fundamental principles and methods of marketing. Intended as a basic training for students interested in the economics of advertising, sales management, retailing, and foreign trade, as well as for those wishing a knowledge of the existing market structure. Subjects covered include price policies, distribution methods, finance, risk, market information, and governmental regulation. Prerequisite: Economics 1A-1B.

Spring (3) (Offered 1943-44 and alternate years)

125 General Insurance—Principles and Practice

Jordan

Economic theory of risk, its extent and importance to both the individual and business; transfer of risk; distribution and prevention of loss; types of insurance carriers; problems of rate making; the insurance contract; coverages; special forms of life, fire, marine and casualty insurance; state supervision.

Fall (3) (Offered in 1943-44 and alternate years)

127 Life Insurance—Principles and Practice

Jordan

A study of social and individual values involved in the institution of life insurance. The student is then directed to the types of life insurance companies and associations, home office and agency organization, types of contracts, surrender value, policy loans and extended insurance, surplus and dividend policies, reserves, group, industrial and social insurance, and state supervision.

Fall (3) (Offered in 1942-43 and alternate years)

128 Land Economics

Real estate in all its aspects: property rights, transfer of title, valuation, finance, selling, property management, taxation, insurance, city planning, and the like, with special emphasis upon problems as they exist in San Diego.

Spring (3) (Not offered in 1943-44)

L129 Real Estate Law and Practice Barnes, Conklin, Merrill, Reader

California law and practice relating to the ownership and transfer of real property, including deeds, contracts, mortgages, taxes, escrows, title insurance, etc.

Spring (3) (Offered in 1942-43 and alternate years)

131 Public Finance and Taxation

A. G. Peterson

Principles and practice of taxation, public expenditures, and financial administration. Economic effects of public expenditure, indebtedness, and taxation. Prerequisite: Economics 1A-1B.

Spring (3) (Offered in 1942-43 and alternate years)

133 Corporation Finance

Cameron

The corporate form of organization, instruments of long-time finance, methods of raising capital, efficient financial management, the financing of reorganizations, and governmental control. Prerequisite: Economics 1A-1B.

Fall (3)

ECONOMICS AND COMMERCE

134 Investments

Cameron

Investment principles and practices with emphasis upon problems of the small investor, such as tests of a good investment, sources of information, types of stocks and bonds, mechanics of purchase and sale, investment trusts, real estate mortgages, and the like.

Spring (3)

135 Money and Banking

Cameron

The elements of monetary theory. History and principles of banking with special reference to the banking system of the United States. Prerequisite: Economics 1A-1B.

Spring (3)

137 Credits and Collections

Cameron

The credit man and his work, including the instruments with which he works, sources of credit information, the technique of his department, collection methods, legislation for the protection of debtor and creditor, and credit insurance.

Fall (3) (Offered in 1942-43 and alternate years)

140 Statistical Methods

Jordan

The nature and uses of statistical method in the social sciences. Practice in tabular and graphic presentation of data; analysis of frequency and time series; index number construction and study of correlation techniques. Prerequisite: Mathematics A and D, or equivalent.

Fall and Spring (3)

142 Business Fluctuations and Business Forecasting

Jordan

Fundamental factors in business cycles are analyzed and cycle theories are examined. Study of current business conditions begins early in the course and develops into practical application of forecasting methods to both business and other data. Prerequisite: Economics 140.

Spring (3) (Offered in 1942-43 and alternate years)

150 Labor Problems and Industrial Relations

A. G. Peterson

A discussion of employment, hours, wages, working conditions, insurance, pensions, workmen's compensation, labor organizations, and labor legislation. Organization of personnel functions; selective devices, training and safety programs, compensation plans, morale.

Spring (4) (Offered in 1943-44 and alternate years)

160A-160B Advanced Accounting

Wright

An intensive study of the corporation, its accounting and financial problems; a thorough study of the balance sheet; depreciation; factory accounting, etc. Under practical accounting an endeavor is made to design, construct, and operate sets of books to meet the needs of different conditions and kinds of businesses. Six hours lecture and laboratory. Prerequisite: Economics 14A-14B.

Year course (3-3) (Offered in 1942-43 and alternate years)

ECONOMICS AND COMMERCE

161 Cost Accounting

Wright

Principles and methods of cost accounting in the mercantile establishment and in the factory. A study of bookkeeping procedure, the forms used, and their application to practical problems. Prerequisite: Economics 14A-14B.

Fall (3) (Offered in 1943-44 and alternate years)

162 Accounting Systems

Wright

The accounting systems used in various types of business and financial concerns. Some practice in devising and installing systems. Prerequisite: Economics 14A-14B.

Spring (3) (Offered in 1943-44 and alternate years)

164 Income Tax Procedure

Wright

A consideration of the problems arising from the Federal income tax. The problems are approached from the point of view of the taxpayer who desires to determine the exact application of the law to the interests he represents as well as from the accounting point of view. No knowledge of accounting procedure is necessary.

Fall (3) (Offered in 1943-44 and alternate years)

165A-165B Auditing

Wright

The fundamental principles of accepted procedures of auditing and related types of accounting engagements.

Year course (3-3) (Offered in 1942-43 and alternate years)

166 Honors Course

The Staff

See page 21.

Fall (3) or Spring (3)

167 Governmental Accounting

Wright

A comparative study of accounting systems used by municipalities, counties, and the state of California; detailed comparisons with commercial practice; procedures in handling budget accounts, appropriations, and encumbrances; subsidiary records; cost records; internal checks; auditing.

Spring (3) (Offered in 1943-44 and alternate years)

171 Transportation

Cameron

The development of railway transportation; railroad financing; rates and rate making; governmental regulation; government operation of railroads during the war; recent development of motor and air transportation; current problems in public utilities. Prerequisite: Economics 1A-1B.

Fall (3) (Offered in 1943-44 and alternate years)

195 International Economic Relations

A. G. Peterson

A brief treatment of certain geographical, sociological, and legal phases of international relations followed by a study of the commercial and industrial basis of world economy touching upon a number of special problems involved. An introductory study of materials covering the processes, principles, and policies of international trade. The course concerns itself primarily with the economic basis of international relations, but political

EDUCATION

aspects are almost constantly taken into account in recognition of the fact that international relations are frequently political in form but economic in content.

Spring (3) (Offered in 1942-43 and alternate years)

198 Investigation and Report

A. G. Peterson

Designed to stimulate independent study and investigation; to furnish guidance in the collection, organization, and presentation of factual material; to improve the technique of term reports.

Fall and Spring (1-1)

199A-199B. Special Study

The Staff

Designed exclusively for seniors with a major in economics or commerce.

Fall (1), Spring (1 or 2)

EDUCATION

UPPER DIVISION COURSES

L100A-B Methods and Materials of Instruction

Alcorn, Lamb and major subject instructors

A year course required of all candidates in their junior year for the junior high and all special secondary credentials. Candidates for a combination of either a junior high or a special secondary credential with an elementary credential may substitute the work of the elementary practicum for the first half of this course, but not vice versa.

The first half of the course deals with general methods of instruction and the organization and functions of the secondary school curriculum; the second half deals with specific methods used in the field of the teaching major or minor and with directed observation of teaching.

Subject sections in 100B are offered as follows:

Semester offered

Ed. L100B-A, Methods in Art	Both
Ed. L100B-B, Methods in Bookkeeping	Fall
Ed. L100B-BE, Methods in Bus. Educ.	Spring
Ed. L100B-E, Methods in English	Spring
Ed. L100B-L, Romance Language Methods	Spring, 1944
Ed. L100B-MA, Mathematics	Fall
Ed. L100B-ME, Methods in Merchandising	Spring
Ed. L100B-MU, Methods in Music	Fall, 1943
Ed. L100B-PE, Methods in Phys. Ed. (Men)	Both
Ed. L100B-PE, Methods in Phys. Ed. (Women)	Both
Ed. L100B-SC, Methods in Science	Spring
Ed. L100B-SA, Methods in Speech Arts	Fall
Ed. L100B-ST, Methods in Stenography	Fall
Ed. L100B-S.SC, Methods in Social Sci.	Both
Ed. L100B-T, Methods in Typing	Spring

Students meet twice a week with their major subject instructors, once a week in a combined class with an education instructor.

Fall and Spring (3-3)

EDUCATION

102A-102B The Psychological Foundations of Education Deputy

A year course required of all candidates for teaching credentials and of those students preparing for the general secondary credential. Semester I: Function of measurement in education; principles of learning; use of tests in the diagnosis and the improvement of learning; construction of objective examinations; and the elements of statistical techniques. Semester II: A study of the mental, emotional, social, and physical development during childhood and adolescence. Directed observation required.

Fall and Spring (3)

LE109B Educational Administration and Supervision Field Work

Individual field work as required for the administration credential. By arrangement with the Dean of Education. (3)

LS110 Educational Organization and Supervision

Types of supervision and methods of evaluating and improving teaching. Prerequisites: Graduation from college with a teaching credential or two or more years of teaching experience.

Summer (3)

LS111 English in the Junior High School (See Education 100B)

Objectives of literature and language teaching in the junior high school; criteria for selection of material; technique of classroom procedure; observation in the city schools. Prerequisite: The satisfaction of the lower division requirements in English for the teaching major in English.

Summer (3)

LS114 Social Science in the Junior High School (See Education 100B)

The teaching of some of the elementary facts and principles of a "general" social science suited to the experience and development of the junior high school pupil, through the medium of such social studies in the junior high school curriculum as history, geography, and civics. Methods of developing a genuine and continuing interest in social and civic problems through observation and reading, discussed and illustrated. Special stress on evaluating historical and geographical material for educative purposes on this level. Prerequisites: Six units of geography and six units of history.

Summer (3)

115A-B The Principles and Functions of Education Alcorn, Ault

A year course restricted to students with senior standing or the equivalent. Required of all junior high school candidates. The second half of the course is required of all special secondary credential candidates and the first half is required of all elementary credential candidates.

The first half of the course deals with the historical backgrounds and underlying philosophies upon which the modern public school system has been established; the last half deals with the principles and sociological factors functioning in the modern secondary school.

Fall and Spring (4-4)

EDUCATION

L116 Practice Teaching

Alcorn, Ault, Deputy, Lamb, Madden

Systematic observation, participation and teaching under supervision in the campus elementary school, the affiliated city elementary school, the Woodrow Wilson Junior High School, and the Herbert Hoover Senior High School. All students enrolled in practice teaching in the secondary schools are automatically enrolled in Education 100B which meets throughout the semester as announced in the time schedule.

The general plan is for elementary school credential candidates to take, in addition to the education practicums, a half-day of teaching daily in the campus elementary school or two and one-half hours daily in one of the affiliated city elementary schools throughout one semester; junior high school and special secondary school credential candidates will be guided by their adviser relative to the distribution of their practice teaching. For those seeking a combination of credentials, the requirements for each teaching level must be satisfied. Further information regarding this requirement should be requested of the Dean of Education when the student first registers for practice teaching.

Thirty clock hours of practice teaching will usually carry one unit of credit in the course, but the final amount of credit allowed will depend upon the character and quality of the teaching done by the student. Practice teaching requirements may be reduced for those who furnish evidence of successful public school experience.

The maximum amount of credit allowed for this course is twelve units.

The universities usually reduce the amount of practice teaching credit they will allow to four units. Students planning to transfer to such institutions should be prepared to meet this reduction with an equal number of acceptable units in other courses.

No grade below a *C* is acceptable for credit in this course.

Prerequisites: Completion of 75 units of college work; admission to teacher training; a *C* average in all college work and in the work of the preceding semester; three units of work in psychology; a minimum of one semester's work in this college. No credit will be given unless the student registers for this course in the office of the Dean of Education.

L117A Music in the Elementary School

Hunt

Main objectives of music teaching in the public elementary schools. Study of the child voice. Organization of song material by grades. Procedure in presenting rote songs, ear training, elementary notation, music reading, and part singing. Conducting. Not open to students taking the elementary credential, nor to freshmen. Prerequisite: Music 1A, or the equivalent.

Fall and Spring (2)

L117B Methods in Instrumental Music

Hunt

A study of the theory of problems or organizing and conducting school bands and orchestras, and the selection of materials. Provides practical experience in conducting a children's orchestra and teaching sectional groups. A study of systematic planning of courses of study for pupils of various ages and abilities will be made.

Fall and Spring (2)

EDUCATION

L119 Art in the Elementary School **Soulé**

Discussion of the elements and principles of art and their place in the art expression and appreciation of the elementary school child. Lectures illustrated with examples of children's work and opportunity given for experience with mediums used in elementary school problems. Not open to students taking the elementary credential. Prerequisite: Art 6A.

Fall and Spring (2)

L127 Music in the Secondary School (See Education 100B) **L. D. Smith**

Main objectives of music teaching in the public secondary schools. Organization of the chorus and glee clubs, voice testing, seating, a survey of song materials available. Organization of courses in applied music, harmony, history and appreciation.

Fall (2) (Offered in 1943-44 and alternate years)

LS130 Educational Psychology

Man's equipment for learning and the learning process. Consideration given to human behavior which is fundamental to learning. The study of learning includes such topics as laws of learning, improvements in learning, remembering and forgetting, fatigue in learning, and the transfer of training. Prerequisite: Psychology 1A.

Summer (3)

LS140 Elementary Educational Statistics

An introductory study of measures of central tendency, of variability, and of relationship which are commonly used in connection with educational work. Laboratory training in statistical method and opportunity to obtain practice in the use of calculating machines and other aids to computation. Data for statistical research taken from typical school situations. Only 2 units allowed students who have taken Economics 140.

Summer (3)

LS142 Educational Sociology

A consideration of school practices in light of social needs; interrelationships of schools and other social agencies; and trends in cooperative activities among community organizations. Selected individual study projects to make personal contacts with various types of public and private social institutions and with some current social movements. Prerequisite: Upper division standing.

Summer (3)

L145 Organization and Administration of Music Education **L. D. Smith**

Theory of the general principles of music administration; correlation of music with the various subjects in the public schools; music tests; creative work.

Fall (2) (Offered in 1942-43 and alternate years)

L147A Kindergarten-Primary Education Practicum **I. Hammack**

Required of all candidates for the Kindergarten-Primary Credential.

Fall and Spring (8)

EDUCATION

L147B Education Practicum

Bacon, E. Hammack, I. Hammack, Hunt, Madden, Nordahl, Pfaff, Redit

This course and Education 148 are required of all students who expect to receive a credential which will qualify them to teach in the kindergarten or in the elementary school. Students should take the course during the next semester after admission to Teacher Training, which is usually the first semester of the junior year. Registration is strictly limited to small groups.

Education Practicum is a unified course which deals with the interpretation and intelligent application of theory and practice in elementary education. The child and accumulated knowledge are studied as one affects the other. The psychology of learning is interpreted while the college student is immediately associated with the experiencing of children. For two or three hours each day classes are held in which the psychology and philosophy of education are studied and analyzed as systems of knowledge and concurrently interpreted in reference to the actual teaching participation to which the student is assigned for one hour daily. The course includes the material commonly taught in many colleges under the titles of educational psychology, principles of learning, mental hygiene, special methods courses in reading, arithmetic, English, art, music, speech, etc.

The course is taught by college instructors who are in direct contact with the Campus Elementary School.

Fall and Spring (12)

L148 Education Practicum

Corbett, Hunt, Lucio, Madden, K. Post, Soulé, B. Stone

The course is a continuation of Education L147. An extended analysis is made of the special fields and applications are made to teaching participation with groups of older children in the elementary school. Prerequisite: Education L147B.

Fall and Spring (12)

Education 155A-B-C-D Principles and Problems in Guidance

Dotson, Mendenhall, C. E. Peterson

A noncredit course covering four semesters of work which will be available to members of the Student Counselor's group only. Designed to provide an orientation toward the principles and literature of guidance, and to prepare the student to meet the problems which he must face as a counselor. Meetings at least one hour a week throughout each semester. Approximately two hours of outside reading and study required each week.

Fall and Spring (0-0)

LE170 Administration of a Visual Instruction Program M. Evans

The service program of a visual instruction center is studied as a collecting, selecting, organizing and distributing center for classroom illustrative materials; a teacher training and advisory bureau in the technique and correct use of visual aids; a photographic production laboratory for making current and local illustrative materials for the curriculum; a testing division for evaluating visual equipment, standardization and

ENGINEERING

upkeep of same; a center for correlating and integrating the school program with opportunities offered by other community educational institutions and organizations; an advisory department for supervising school film productions and for instructing teachers and students in the art of photography and appreciation of photoplays.

This course is given at the visual education center of the San Diego city schools and the enrollment is limited to students who have made previous arrangements with the head of the Education Department and with the instructor.

Fall and Spring (2)

LS175A Administration and Supervision of an Elementary School

Summer (3)

LS175B City School Administration

Summer (2-3)

L176 Speech Arts in the Secondary School (*See Education L100B*)

Jones

Organization and conduct of junior high and high school speech activities.

Fall (2)

L199 Educational Problems

Education Staff

(Dean of Education in charge)

A course for senior students in residence and enrolled in teacher training who have shown ability to work independently on educational problems. The problem can be chosen only after consultation with a staff member. Admission by consent of the staff. Credit and hours to be arranged.

Fall and Spring (1-3)

ENGINEERING

(For curriculum in engineering see pages 57, 58.)

LOWER DIVISION

1A-1B Plane Surveying

Gleason

Use and adjustment of surveying instruments, computations and map-making, together with a study of land, topographic, city, and mine surveying. Two instruction periods and one three-hour period for field work and mapping each week. Prerequisites: Trigonometry and Mechanical Drawing, or equivalent, and sophomore standing.

Year course (3-3)

S3 Summer Class in Surveying

Practical field problems in reconnaissance, triangulation, location and topographic surveys. Observations for meridian, time and latitude. Precise work in linear and angular measurements. Development of self-reliance, accuracy, and professional skill on the part of the student. Four weeks course held in the mountains near San Diego. For details regarding location of camp, date of registration, date of opening, and other arrangements, a special announcement of the surveying camp may be secured at the Registrar's Office. Offered if demand is sufficient. Prerequisite: Surveying 1A-1B.

Summer (3)

ENGINEERING

21 Descriptive Geometry

Walling

Fundamental principles of descriptive geometry and their application to problems of engineering. Lectures and drafting. Prerequisites: One year of mechanical drawing, and sophomore standing.

Fall (3)

22 Machine Drawing

Walling

Design and drawing of simple machine parts with emphasis upon the production of standard drawings. Lectures and drafting. Prerequisite: Engineering 21, Mathematics 3A-3B.

Spring (3)

23 Materials of Construction

Walling

Manufacturing processes, structural properties and adaptability of the principle materials used in engineering. Lectures; Prerequisite: Sophomore standing.

Spring (2)

50 C.A.A. Primary Ground School

Waller

The course is divided into four parts. The first part deals with an integrated treatment of an applied theory of flight and aerodynamics, flight and engine instruments, engine and aircraft inspection and maintenance. The second part deals with the general theory of meteorology with practical application to flying. The third part is the study of navigation of aircraft by the systems of pilotage, dead reckoning, and use of radio aids; navigation instruments; map reading; variation; deviation; wind drift. The fourth part is a study of the Civil Air Regulations as they concern the private pilot.

(4)

51 C.A.A. Secondary Ground School

Waller

This course is divided into three parts. The first is devoted to study of aerodynamics and the airplane, the limitations, care and use of flight and engine instruments, and parachutes. The second is a careful review of air navigation with some extensions. The third is devoted to an extensive study of the principle of the internal combustion engine and its care and maintenance. Also, one will be expected to learn radio telegraphy.

(5)

52 C.A.A. Primary Flight Training

Waller

This course includes 35 to 45 hours of actual flying and a considerable number of hours of ground instruction on flight maneuvers and inspection of airplanes.

(1)

53 C.A.A. Secondary Flight Training

Waller

This course includes 40 to 45 hours of flight, including instruction in acrobatic maneuvers, and ground instruction on flight maneuvers and inspection of airplanes.

(1)

ENGLISH

100A-100B Elements of Electrical Engineering **Walling**

Theory and characteristics of electrical equipment with emphasis on industrial applications.

100A Direct current circuits, generators and motors. Introduction to alternating current circuits.

100B Alternating current circuits, transformers, alternators, induction on synchronous motors, conversion apparatus and transmission lines.

Lectures and problems. Prerequisites: Mathematics 4A, Physics 1C or permission of the instructor.

Year course (3-3) (Offered in 1942-43 and alternate years)

105 Hydraulics **Walling**

A general course in hydraulics including the fundamental principles of hydrostatics and hydrodynamics applied to the flow of water through orifices, over weirs, through pipes and canals. Lectures and problems. Prerequisites: Mathematics 4A, Physics 1C. Recommended: Physics 105A-105B.

Spring (3) (Offered in 1943-44 and alternate years)

123 Materials of Construction **Walling**

Essentially the same as Engineering 23 except that students will be expected to investigate more fully some particular material or process and prepare a written report upon it. Prerequisites: Chemistry 1B, Junior standing.

Spring (2)

128 Elements of Heat Power Engineering **Walling**

Fundamental consideration of fuels, combustion, steam, boilers, furnaces, chimneys, steam engines, steam turbines and auxiliaries, internal combustion engines. Lectures and Problems. Prerequisites: Mathematics 4A, Physics 1B.

Fall (3) (Offered in 1943-44 and alternate years)

ENGLISH

Lower division preparation for the liberal arts major in English: English 1B or 1C, and one section of English 2; and six units from 50A, 50B, 52A, 52B, 56A, 56B. Liberal arts major (upper division): 24 units in upper division English to be selected and arranged under supervision of the department. A reading knowledge of German or French.

LOWER DIVISION COURSES

L1A Beginning Composition **The Staff**

The elements of composition, including drill in grammar and usage; exercises in vocabulary building and careful reading; theme writing. Credit in this course is equivalent to passing the English A examination.

Fall and Spring (3)

ENGLISH

L1AA Reading Efficiency and Vocabulary Extension **Trail**

Special drill in reading for comprehension; vocabulary building; practice in elementary composition. Systematic, progressive, and intensive training and practice in effective reading and methods of study. This course may be substituted for English L1A.

Fall and Spring (3)

1B Freshman English **The Staff**

Composition stressing exposition. Reading from essays of England and America since 1850. Prerequisite: Satisfactory Subject A test or record from another college.

This course is not open to students who have taken English 1A

Fall and Spring (3)

1C Freshman Literature **Keeney**

An introduction to literature significant in European and American culture, with composition. This course may be taken, in connection with either English L1A, L1AA, 1B or 2, to earn six units of credit in Freshman Composition and Reading.

Fall and Spring (3)

2 Sophomore English: Composition and Reading **The Staff**

The analysis of literature, with practice in writing of various types. This course is open to Freshmen who have completed either L1A, 1B or 1C. By taking English 1B and 2, the student earns credit for six units of composition. English 2 is taught in various parallel sections, as described below. These alternatives require equal work and give equal credit.

Fall and Spring (3)

2A Sophomore English: Argumentation **Allen**

A study of the underlying principles of, and of the methods involved in, writing designed to secure agreement or favorable consideration, together with much practice in both shorter and longer forms of such writing.

Not open to students who have credit in English 2C.

Spring (3)

2B Sophomore English: Biography **Haskell**

Composition stressing personal narrative and informal essay. Reading from field of biography and memoirs. Prerequisite: One semester of Freshman English.

Fall and Spring (3)

2C Sophomore English: Periodical Literature **Adams, Dickhaut**

Composition stressing article writing of varied types. Reading from current periodical literature. Prerequisite: One semester of Freshman English. *Not open to students who have credit in English 2A.*

Spring (3)

ENGLISH

2D Sophomore English: Foundations of the Language **Allen**

An elementary course in English linguistics designed to make more significant the native language through a study of the elements which have gone into the composition of its vocabulary. Prerequisite: One semester of Freshman English.

Fall and Spring (3)

2E Sophomore English: Modern Drama **F. L. Johnson**

Composition based upon the reading of recent plays and dramatic criticism. Prerequisite: One semester of Freshman English.

Spring (3)

2F Sophomore English: Short Story Writing **Bruner**

A practical course in writing, including a study of short story technique and markets, and the writing of complete short stories. Prerequisite: One semester of Freshman English.

Spring (3)

L8 English in Business **Torbert**

Theory and practice of business correspondence. Business letters as applied salesmanship; problems in writing credit and collection letters, applications for employment, adjustment letters, and sales letters. Prerequisite: English L1A or equivalent, as indicated by Subject A Examination, or record from college. This course is planned for students in Secretarial Training; units obtained in it cannot be used to meet English requirements in other fields.

Fall and Spring (3)

10 Recreational Reading **Dickhaut**

Development of personal tastes for leisure-time reading through lectures and oral or written reports. May be taken a second time with new material.

Fall and Spring (1)

L40A Beginning Composition **The Staff**

The elements of composition, including drill in grammar and usage; exercises in vocabulary building and careful reading; theme writing. Open only to Two-Year students.

Fall and Spring (3)

L40B Freshman English **The Staff**

Composition stressing exposition. Reading from essays and articles. Prerequisites: Satisfactory Subject A test. Open only to Two-Year students.

Fall and Spring (3)

L40C Freshman Literature **The Staff**

Literature, mainly contemporary, is read for its thoughts and ideas, especially in relation to human problems and their solution. Practice in writing is continued. Prerequisite: One semester of Freshman English. Required of all Two-Year students; open only to Two-Year students.

Fall and Spring (3)

ENGLISH

L45 Sophomore English: Biography

The Staff

Composition stressing personal narrative and informal essay. Reading from field of biography and memoirs. Prerequisite: English L40A or L40B, and English L40C. Open only to Sophomore Two-Year students.
Fall and Spring (3)

50A-50B Survey of American Literature

Kennedy

Semester I: A survey of American literature from its beginnings to 1860. Semester II: American literature from 1860 to the present. Lectures, discussions, and reports.

Year course (3-3)

52A-52B Types of Literature

Trail

Semester I: Introduction to the study of lyrical and narrative poetry; origin and elements of poetry; typical poems. Semester II: Introduction to the study of dramatic poetry and prose, the essay, novel and short story; elements, principles and characteristics; examples.

Year course (3-3)

56A-56B Survey of English Literature

Keeney

The study of some important works of English literature from the Anglo-Saxon period through the Victorian age, with emphasis upon the literary history of each period.

Year course (3-3)

UPPER DIVISION COURSES

101A Modern Continental Fiction

Dickhaut

A survey of leading French, Russian, Scandinavian, Italian, and German novelists and short story writers, from Tolstoy and his associates to the present day.

Spring (3) (Offered in 1942-43 and alternate years)

101B Modern British Fiction

Dickhaut

The novel and short story, especially of the last quarter of a century.

Spring (3) (Offered in 1943-44 and alternate years)

104 Latin-American Literature in English

Phillips

A survey of the literature of the Latin-American countries, with lectures in English and reading in English translations. Class reports on collateral reading. Spanish credit will be given to those who wish to do the requisite reading in Spanish.

Spring (3) (Offered in 1943-44 and alternate years)

106A, 106B Advanced Composition

Dickhaut

A laboratory course in modern prose writing. Semester I: Artistic narrative, with description. The short story. Semester II: The essay, the magazine article, criticism. Outside readings. Prerequisite: One year of college composition. Either semester may be taken first.

Fall, Spring (3-3) (Offered in 1943-44 and alternate years)

ENGLISH

107A, 107B Advanced Composition

Adams

These courses are designed for students who wish to do independent work in composition. The discussions will consider the problems of effective expression as exhibited in the work of the members of the class. Prerequisite: Same as for 106A, 106B. Either semester may be taken first.

Fall, Spring (3-3) (Offered in 1942-43 and alternate years)

110 Recreational Reading

Dickhaut

An advanced course in the group reading of modern drama, poetry and fiction.

Fall and Spring (1)

112 History of the English Language

Allen

An inductive historical approach to basic aspects of the language. The course includes an analysis of English sounds, grammar, and syntax, beginning with Modern English and going back through Early Modern, Middle, and Old English.

Fall (3)

113 American English

Allen

The rise of American English; its peculiarities in pronunciation, grammar, and vocabulary; slang; regional and cultural differences.

Spring (3) (Offered in 1943-44 and alternate years)

115 The English Bible as Literature

Kennedy

A study of the narrative, poetry, and prophecy of the King James version of the Bible. Readings, reports, lectures, and discussions.

Fall (3) (Not offered in 1942-43)

116A Non-Dramatic Literature of the English Renaissance

Allen

Major writers from More to Bacon.

Spring (3) (Offered in 1942-43 and alternate years)

116B The Elizabethan Drama

F. L. Johnson

Emphasis is given to the forerunners and early contemporaries of Shakespeare.

Spring (3) (Offered in 1943-44 and alternate years)

117A-117B Shakespeare

F. L. Johnson

A chronological survey. The first semester gives special emphasis to the histories and comedies; the second, to tragedy and the dramatic romances.

Year course (3-3)

118A Swift and His Contemporaries

Keeney

A study of the literature of the first half of the eighteenth century, with special emphasis on social satire of Swift, Pope, Addison, Steele, Gay and Prior.

Spring (3) (Offered in 1943-44 and alternate years)

118B Age of Johnson

Keeney

A study of Johnson and his circle as representative of their age, together with a study of Burns, Blake, and others as forerunners of the age of Romanticism.

Spring (3) (Offered in 1942-43 and alternate years)

119 The Romantic Poets

Trail

A study of early nineteenth century poetry; the work of Wordsworth, Coleridge, Byron, Shelley, and Keats, in relation to the thought of the revolutionary period.

Fall (3) (Offered in 1943-44 and alternate years)

121 Poetry of the Victorian Period

Trail

A study of Tennyson and Browning and their contemporaries and successors, relating English poetry to nineteenth century life and thought.

Fall (3) (Offered in 1942-43 and alternate years)

126 Nineteenth Century British Prose

Dickhaut

Readings and discussions of romantic and mid-Victorian prose writers, including Coleridge, Hazlitt, Lamb, DeQuincey, Carlyle, Landor, Macaulay, Mill and Thackeray.

Fall (3) (Offered in 1942-43 and alternate years)

127 Modern British Prose

Dickhaut

Late nineteenth and early twentieth century essays of Arnold, Beerbohm, Belloc, Chesterton, Galsworthy, Gosse, Huxley, Inge, Newman, Pater, Ruskin, Shaw, Stevenson, Tomlinson and Wells.

Fall (3) (Offered in 1943-44 and alternate years)

130A American Literature

Adams

A popular survey of literary movements in the United States to the late nineteenth century, with a study of the chief writers. This course is not open to students who have credit in English 50A, and it must not be elected by English majors except with special permission of the instructor.

Fall (3)

132 The Frontier and American Literature

Kennedy

A survey of the influence of the frontier upon American literature from colonial days to the present. Studies in source materials, biographies, and representative writers such as Irving, Cooper, Harte, and Mark Twain.

Fall (3) (Offered in 1942-43 and alternate years)

133 American Fiction

Adams

The outstanding writers of novels and short stories, from Cooper to Norris.

Spring (3) (Offered in 1942-43 and alternate years)

134 Recent American Literature

Kennedy

A survey of American literature since 1900 with emphasis upon contemporary poetry, fiction and drama. *Not open to students with credit in English 50B.*

Spring (3)

FOREIGN LANGUAGES

143 The Development of the English Novel Kennedy

History of the English novel from the beginnings to Hardy. Extensive reading of novels with reports. Lectures and discussion.

Fall (3) (Offered in 1943-44 and alternate years)

151 Medieval Literature—Chaucer Keeney

The study of Chaucer's works, and a consideration of the social and literary backgrounds of the fourteenth century.

Fall (3)

152A Survey of Drama: Comedy

Studies in the field of comedy, based on selected readings from the works of Continental, English, and American dramatists. Lectures, discussions, and reports on reading.

Fall (3) (Not offered in 1942-43)

152B Survey of Drama: Tragedy

Procedure as in 152A, with selections taken from the field of tragedy.

Spring (3) (Not offered in 1942-43)

160 Seventeenth Century Literature Adams

Emphasis is put upon the work of Milton.

Spring (3) (Offered in 1943-44 and alternate years)

166 Honors Course Keeney and Staff

Special study. Open to members of the Honors Group in English. See page 21.

Fall and Spring (1 to 5-1 to 5)

FOREIGN LANGUAGES

The courses offered in foreign languages are listed below. See pages listed after each subject for a more complete description of the offerings under that designation. French, see below; General Language, page 105; German, page 108; Italian, page 113; and Spanish, page 144.

As a background for advanced work in Romance languages, students are advised to include in their electives as many as possible of the following courses: Geography 118, History 121A, 121B, 147, Aesthetics 50 or 150; English 52A, 52B, 56A, 56B, 101, 118A, 119, 143.

FRENCH

Lower division preparation for the liberal arts major in French: French A-B-C-D; either German A-B or Spanish A-B; History 4A-4B.

Liberal arts major in French: Twenty-four units of upper division work, of which at least eighteen must be in French, and of which a maximum of six may be in related subjects, arranged in consultation with the chairman of the department. At least a C average in upper division major courses.

FRENCH

LOWER DIVISION COURSES

A-B Elementary

Baker, L. P. Brown, Phillips

Intensive study of French grammar and syntax; daily written work discussed in class; class drill in conversational idiom and pronunciation; reading with oral discussion and résumé; dictation; introduction to contemporary prose writers. Credit not given for French A unless followed by French B. Students who have had one year of French in high school should register for French B. Those who have had two years of French in high school should register for French C.

Year course (5-5)

C-D Intermediate

E. M. Brown, Phillips

Reading and composition; study of standard prose as a basis for class work, collateral reading with résumés and written reports in French; dictation. Individual conferences. Prerequisite: French B or two years of high school French, or its equivalent. Students with three years of high school French may take D with full credit.

Year course (3-3)

SC Scientific

L. P. Brown

Reading taken from the fields of chemistry, physics, medicine, zoology, biology, etc. Outside readings of books and periodicals. Oral and written reports. Prerequisite: French B or equivalent.

Fall (2) (Offered in 1942-43 if registration warrants)

UPPER DIVISION COURSES

101A-101B Conversation and Composition

E. M. Brown

Prerequisite: French D, or its equivalent, with grade of C.

Year Course (3-3)

105A-105B Modern French Drama

E. M. Brown

Plays of Musset, Scribe, Augier, Dumas fils, Pailleron, Brieux, Hervieux, Maeterlinck, Rostand, and others read and discussed as to subject matter and technique. Outside reading and reports. Prerequisite: French D, or its equivalent, with grade of C.

Year course (3-3) (Offered in 1945-46)

107A-107B Eighteenth Century Literature

L. P. Brown

The works of Montesquieu, Voltaire, Rousseau, the Encyclopédistes, and others. Prerequisite: French D, or its equivalent, with a grade of C.

Year course (3-3) (Offered in 1944-45)

110A-110B Modern French Novel

E. M. Brown

The French novel from Victor Hugo to the present day, including such authors as: Hugo, Dumas, Stendhal, Balzac, Flaubert, Loti, Anatole France, Bourget, Bordeaux, Bazin, Barrès, Romain Rolland, A. Gide, Marcel Proust, and others. Class and outside reading and reports. Prerequisite: French D, or its equivalent, with grade of C.

Year course (3-3) (Offered in 1943-44)

GENERAL LANGUAGE

111A-111B Seventeenth Century Dramatic Literature E. M. Brown
Reading in class of plays of Molière, Corneille, and Racine. Outside readings and lectures on the background of the seventeenth century in France. Prerequisites: French D or its equivalent, with a grade of C.
Year course (3-3)

199 Comprehensive Reading and Survey Course The Staff
Designed to fill up the gaps in the reading done in courses. Class meeting once a week for guidance, reports, and quizzes. Required of all seniors majoring in French.
Spring (3)

GENERAL LANGUAGE

LOWER DIVISION COURSE

A Latin and Greek Word Derivation L. P. Brown
A general and elementary course in philology. A study of Latin and Greek roots of most frequent occurrence in English, and of the English words derived from them.
Fall (2)

GEOGRAPHY

Lower division preparation for the liberal arts major in geography: Geography 1, 2, 3, and Geology 1A-1B. Recommended: A reading knowledge of French or German.

Liberal arts major (major division): Twenty-four units of upper division work in geography or 18 units in geography and six units in related subjects arranged in consultation with the chairman of the department.

LOWER DIVISION COURSES

1 Introduction to Geography: Physical Elements The Staff
The nature of maps, weather and climates of the world; natural vegetation; land forms and their associated soils, with reference to their climatic relationships; the seas and their coasts. One all-day field trip. Open to all students who have not taken Geography 10A-10B. *This course is classified as a natural science.*
Fall and Spring (3)

2 Introduction to Geography: Natural and Cultural Regions The Staff
The regional differentiation of the world by human activity; areal bases of economy and nationality. Prerequisite: Geography 1.
Fall and Spring (3)

3 Elementary Meteorology Richardson
An elementary study of the earth's atmosphere and changes in it which produce our weather and influence human affairs. Special attention given to local conditions, instruments, and records. Aeronautical meteorology stressed in the fall semester. *This course is classified as a natural science.*
Fall and Spring (3)

GEOGRAPHY

4 Map Reading and Map Interpretation

Richardson

Representation of geographic data by means of maps. Interpretation of projections, scales, symbols, land forms, and culture from topographic maps; measurements of cultural data on maps. Prerequisite: Geography 1.

Fall (3)

10A-10B Economic Geography

L. C. Post

Beginning course in economic geography limited to students in commerce and prospective economics majors. Not open to students who have had Geography 1 and 2. *This course may serve as prerequisite to upper division geography courses.*

Fall and Spring (3-3)

L40A-L40B Introduction to Geography

L. C. Post

An introductory descriptive course designed to acquaint students with the general features of the various regions of the world. Presents the climatic regions of the world with a description of what man has done with the resources of each. Develops a background for the interpretation of world problems and world happenings. One all-day field trip in L40A. *Open only to students enrolled in a two-year curriculum.*

Year course (3-3)

UPPER DIVISION COURSES

112 Geography of California

Storm

The physiographic regions of California and the cultural landscapes developed by the successive cultural groups. Prerequisite: Geography 1.

Spring (3)

113 Climatology

Richardson

A survey of the principal classifications of climates of the world; regional characteristics of climate; relations to soils, vegetation, and human activities. Prerequisite: Geography 1.

Spring (3)

116 Geography of Latin America

Richardson

The natural regions of Latin America; their occupational condition and historical evolution. Prerequisite: Geography 1.

Spring (3)

117 Geography of Northern and Eastern Europe

L. C. Post

A study of the cultural development of the countries of northern and eastern Europe in relation to physical background and historical evolution. Prerequisite: Geography 1.

Fall (3)

118 Geography of the Mediterranean Area

L. C. Post

A study of the cultural development of the countries of Southern Europe, Western Asia, and North Africa in relation to physical background and resources. Prerequisite: Geography 1.

Spring (3)

GEOLOGY

121 Geography of North America

Richardson

The natural regions of North America, their formation and economic and historical development. Prerequisite: Geography 1.

Fall (3)

124 Geography of Asia

Storm

The cultural regions of Asia, their physical environment, and historical development. Prerequisite: Geography 1.

Spring (3)

135 Geography of the San Diego Area

Storm

Directed individual urban and rural field work in the San Diego area; the mapping of a small area and making its geographic interpretations. Prerequisites: Geography 1 and 2.

Fall (3) (Not offered 1942-43)

141 Economic Geography

Storm

A survey of the raw materials of world trade; their production and distribution as related to major geographic regions of the world. Prerequisite: Geography 1.

Fall (3)

166 Honors Course

The Staff

To be arranged after consultation with the chairman of the department. (See page 21.)

Fall and Spring (Credit to be arranged)

GEOLOGY

Department requirement in Geology for liberal arts major in Physical Science includes in addition to Geology 1A-1B, the completion of: Chemistry 1A-1B, Mathematics 3A; Physics 1A-1B-1C-1D or 2A-2B; 3A-3B. Students preparing for advanced work in Geology may substitute Engineering 21 for Mathematics 3A. Geology 2A may be substituted for Geology 1A in prerequisite requirements provided the additional necessary unit of laboratory work is completed.

French or German, Engineering 1A-1B and Geology 21A-21B are recommended.

LOWER DIVISION COURSES

1A Physical

Brooks

The composition, origin, and distribution of earth materials, and their modification through mechanical and chemical processes of change. Three lectures and one three-hour laboratory period weekly with related field study during the semester. (Not open to students who have had Geology 2A except for one unit upon the completion of the laboratory section.)

Fall (4)

1B Historical

Brooks

Theories of earth origin, and the evolutionary history of the earth as traced through rock and fossil records. Consideration of the Paleontologic Sequence. Three lectures and one three-hour laboratory period weekly, with arrangement for field study and conference during the semester. Prerequisite: Geology 1A or equivalent.

Spring (4)

GERMAN

2A General

Brooks

Similar to Geology 1A but *without* laboratory. Open to all students except physical science majors or those already presenting credit in Geology 1A. Two lectures and one demonstration and discussion hour weekly.

Fall (3)

2B Physiography

Brooks

A study of the land forms of the United States and their physiographic history as illustrative of universal geologic conditions. Two lectures and one discussion hour weekly. Prerequisite: Geology 1A or 2A.

Spring (3)

21A-21B Mineralogy

Brooks

Study of the common minerals and rocks. Use of the blowpipe and simple chemical reagents but with emphasis upon sight determination. Prerequisite: Geology 1A and high school chemistry, or equivalents.

Year course (3-3) (Offered in 1943-44 and alternate years)

L40 General Geology

An elementary course dealing with those processes of nature by which the surface of the earth is built up, deformed and torn down. A study of the natural history and occurrence of the common rocks and minerals.

Open only to students enrolled in a two-year curriculum.

Fall and Spring (3)

UPPER DIVISION COURSES

100 Structural Geology

Brooks

The evolution and description of the structural and topographical features of the earth. Faulting, folding, and orogenic forces with practical illustrations from the North American Continent and emphasis on California geologic conditions. Lectures, discussions, and occasional field trips. Prerequisite: Geology 1A-1B.

Fall (3) (Offered in 1942-43 and alternate years)

101 Geologic Problems

Brooks

Reconnaissance of adjacent areas with elementary mapping; or directed reading and group discussion of California Geology; or selection and preparation of materials for the museum collections. Prerequisite: Geology 1A-1B. Registration subject to approval of instructor.

Spring (1-4)

GERMAN

LOWER DIVISION COURSES

A-B Elementary

H. K. Walker

Pronunciation, reading and grammar, with practice in simple conversation, narration and description, both oral and written. Credit not given for German A unless followed by German B. Students who have had one year of German in high school should register for German B. Those who have had two years of German in high school should register for German C.

Year course (5-5)

HEALTH EDUCATION

C-D Intermediate

H. K. Walker

Reading and composition; study of standard prose as basis for class work; collateral reading with written reports; German conversation, with the texts read as a basis; dictation. Prerequisite: German B or two years of high school German, or its equivalent. Students with credit for three years high school German, or its equivalent, should enter German D, and will receive full credit.

Year course (3-3)

1-2 Elementary

H. K. Walker

A course similar to German A-B, but meeting only three times a week and giving only three units of credit a semester. Intended for those who wish to go more slowly than is possible in a course meeting five times a week. Credit not given for German 1 alone.

Year course (3-3)

SC-SD Scientific

Messner

Full semester. Readings in scientific reader on chemistry, physics, etc.: occasional written reports on scientific subjects read outside of class; sight reading. Spring semester. Readings in special scientific or technical works; weekly written reports required; sight reading. Prerequisite: German SC-German B with a grade of C or two years of high school German; German SD-German SC, German C, with a grade of C, or three years of high school German.

Year course (3-3)

HEALTH AND PHYSICAL EDUCATION

(See Physical Education)

HEALTH EDUCATION

LOWER DIVISION

1 Health and Social Adjustment (Men)

C. E. Peterson

An informational course in personal and community hygiene. A study of social hygiene and the hygienic principles of living. Speakers from the County Medical Association on subjects of vital interest enrich the offerings of this course. It is especially desirable that this course be taken in the freshman year.

Fall and Spring (2)

2 Health and Social Adjustment (Women)

B. I. Stone

An informational course, reviewing the principles underlying the improvement of personal health, and the solution of practical problems of young women and prospective homemakers. Lectures by specialists in the various fields serve to enrich the course. Required of all freshmen who are candidates for junior standing or the degree.

Fall and Spring (2)

HEALTH EDUCATION

51 Safety Education

Bennett

Prevention of accidents: practical application of first aid methods leading to American Red Cross First Aid Certificate. Formerly listed in bulletin as Physical Education 51.

Fall (1) (Offered in 1942-43 and alternate years)

55 Nurse's Aide

Course designed to give women students interested in nursing field an opportunity for service as a contribution to Red Cross and their community under normal conditions, as well as in disaster and other emergencies. The course will furnish the knowledge and skill necessary to assist in care of the sick in hospitals, illness, and health organizations. Thirty-five hours of lecture and demonstrations and 45 hours of hospital experience are required for completion of the training.

Fall and Spring (2-2)

61 Nutrition

A course designed to inform prenursing students of the known dietary essentials and the disorders which result from the deprivation of these factors. The fundamentals of an adequate diet and the ways of modifying the diet in such conditions as obesity, malnutrition, pregnancy, etc., are stressed. The content of this course is comparable to that listed as Home Economics 32 by the University of California. Two lectures and one laboratory a week.

Fall (2)

UPPER DIVISION

151 Health Education (Education 147-148)

B. I. Stone

A course for teacher-training students which includes the study of the diseases, common physical defects, and health indices of school children; the detection and control of communicable diseases which may appear in the school; and the elements which underlie a health education program. Methods of presenting personal and group health to children of different ages. Hygiene of the schoolroom, such as seating, lighting, and ventilation.

Fall and Spring (2)

190 Physiology of Reproduction

Huff

A course consisting of a series of lectures and discussion dealing with normal and abnormal physiology and anatomy of reproduction, facts and frauds in sex hygiene, and related topics. Prerequisite: Junior standing. Sophomores only with permission of a dean.

Fall (Women) (1)

Spring (Men) (1)

HISTORY

HISTORY

Lower division preparation for the liberal arts major in history: History 4A-4B or 8A-8B, and either Political Science 1A-1B, 71A-71B or Economics 1A-1B. Both history courses are recommended for students planning to major in history. No student shall enroll in more than one lower division history course during a semester.

Upper division requirements for the liberal arts major: At least twenty-four units in upper division courses in history, to be arranged in consultation with the chairman of the department. The student must enroll in History 199 in his senior year. A reading knowledge of at least one foreign language is expected of history majors.

The history minor: from twelve to eighteen units of work in history is recommended. At least half the work should be chosen from upper division courses.

LOWER DIVISION COURSES

4A-4B History of Modern Europe

Lesley

Development of European society and institutions from about 1500 A.D.
Year course (3-3)

8A-8B History of the Americas

Nasatir

A general survey of the history of the western hemisphere from the discovery to the present time. Emphasis on the process of planting European civilization in the new world, the international contest for the continents, the wars for independence, the development of the American republics, and their relations with each other and with the rest of the world. Based on H. E. Bolton's "Syllabus of the History of the Americas."
Year course (3-3)

UPPER DIVISION COURSES

111A-111B Ancient History

Lesley

Semester I—Social, economic, political and cultural development of the Greek states, with emphasis upon the growth of democracy, attempts at federal union and imperialism, Hellenism.

Semester II—Roman history to the beginning of the medieval period; discussions of Roman imperialism and the main constitutional, economic, social and religious developments in the republic and empire.

Year course (3-3) (Offered in 1943-44 and alternate years)

121A-121B Medieval History

Osborn

General survey of European political and cultural development between 500 and 1500 A.D., with special attention to intellectual tendencies and the development of institutions which culminated in the emergence of modern Europe after 1500.

Year course (3-3) (Offered in 1942-43 and alternate years)

143 The French Revolution and Napoleonic Era

Lesley

An intensive study of the revolutionary period in Europe from 1789 to 1815.

Fall (3) (Offered in 1943-44 and alternate years)

HISTORY

144 Europe Since the World War

Lesley

Developments in Europe from 1919 to the present.

Spring (3) (Offered in 1943-44 and alternate years)

146A-146B Diplomatic History of Europe Since 1648

Lesley

A course centering around the four major European treaties, their background, drafting and results. First semester, the Treaties of Westphalia, Utrecht and Vienna. Second semester, the Treaty of Versailles.

Year course (3-3) (Offered in 1942-43 and alternate years)

147 History of Modern France

Lesley

Intensive survey of the political and social development of France under the Third Republic, 1870 to the present. International and colonial problems of modern France will also be considered.

Fall (3) (Offered in 1942-43 and alternate years)

148 History of Modern Germany

Lesley

Political, social and economic development of Germany after 1870, the Empire and Republic. German post-war problems, imperialism, and the establishment of the Third Reich will receive special attention.

Spring (3) (Offered in 1942-43 and alternate years)

151A-151B England Since the Norman Conquest

Nasatir

A survey of political and constitutional development in England since 1066, stressing the transition from medieval to modern England, Tudor despotism, the struggle for self-government under the Stuarts, the rise and development of present-day political and social institutions.

Year course (3-3) (Offered in 1943-44 and alternate years)

156A-156B History of British Expansion

Nasatir

A study of the growth, development, and break-up of the older overseas empire: the beginnings of the newer empire after 1783; the rise, federation, and imperial relations of the British Commonwealth of Nations; the crown colony system; India under British rule; and British expansion in Africa and the Pacific; development of British mandates.

Year course (3-3) (Offered in 1942-43 and alternate years)

161 South America Since Independence

Nasatir

The republics of South America. Attention directed to the development of nationality in South America, the struggles for political stability, the exploitation of resources, diplomatic and commercial relations with the United States, and other international problems of South America. Survey of present-day conditions, political, economic, and social.

Spring (3)

163 Mexico and the Caribbean Countries

Nasatir

Same plan in general as outlined in History 161. Special attention to the relations of the United States with these countries, and to the recent developments in Mexico.

Fall (3)

ITALIAN

171A-171B The Rise of the American Nation

Leonard

Semester I. English colonization in North America and the development of colonial institutions and politics. Semester II. The revolutionary movement and the Revolutionary War; the establishment of the government under the Constitution to the close of the War of 1812.

Year course (3-3) (Offered in 1942-43 and alternate years)

173A-173B The Expansion of the United States

Leonard

The rise of Jacksonian Democracy; territorial expansion and the Mexican War; the slavery controversy; the Civil War, and reconstruction; the growth and progress of the United States to the World War.

Year course (3-3) (Offered in 1943-44 and alternate years)

199 Special Courses for Advanced Students

Leonard

Required of all students with a history major in the liberal arts curriculum and to be attended during the senior year. Other students may be admitted with the permission of the instructor.

Spring (2)

ITALIAN

A-B Elementary

Phillips

Intensive study of Italian grammar and syntax, with daily written work; class drill in conversational idiom and pronunciation; reading of works by contemporary writers. Credit not given for Italian A unless followed by Italian B. Students who have had one year of Italian in high school should register for Italian B.

Year course (5-5) (Not offered in 1942-43)

JOURNALISM

For the curriculum in journalism see page 64.

For the profession of journalism introductory work in the fields of literature, history, political science, economics, social economics, the arts, etc., is recommended.

The aim in the specialized courses in journalism is to offer introductory training in the principles and practices of journalistic writing only after a good foundation in correct speaking and writing of English has been laid. Practical training in news reporting and editing for student publications and for the daily press is emphasized.

LOWER DIVISION COURSES

10A-10B Contemporary Press

Development of the American newspaper; comparison of American and foreign newspaper practices; display and treatment of news; press associations. Prerequisite to Journalism 51A-51B; open to general enrollment.

Fall and Spring (1-1)

JOURNALISM

51A-51B News Gathering and Reporting

Study of news sources and types; practice in news and feature writing; newspaper organization; excursions and special lectures. Course planned for freshmen as a prerequisite to positions on all college publications.

Year course (3-3)

L53A-L53B Applied Journalism

Practice and projects in reporting news and feature stories and in other editorial work on *The Aztec*, *El Palenque*, *Del Sudoeste*. Students not enrolled in 51A-51B are required to take L53C-L53D.

Fall and Spring (1 to 3; 1 to 3)

L53C-L53D Newswriting Problems

Techniques in meeting problems of reporters and editors on publications with emphasis upon work of class members on *The Aztec*, *El Palenque*, *Del Sudoeste*.

UPPER DIVISION COURSES

151A-151B Newspaper Editing

Study and practice in the editorial, headline writing and editing of newspaper copy; management of publications. Projects in newspaper and magazine work. Required of all upper division students who take L153A-L153B for credit.

Fall and Spring (1-1)

L153A-L153B Advanced Journalism Practice

Editing of student publications and direction of personnel in editorial projects. Prerequisite: 51A-51B (may be waived by instructor). 151A-151B must be taken concurrently with this course.

Fall and Spring (1 to 3; 1 to 3)

Note.—Not more than six units in all will be given for Journalism practice on student publications.

153C-153D Newspaper Practices

Work on community publications, including county newspapers, under direction of the instructor.

Fall and Spring (2)

199 Special Course for Advanced Students

Open to seniors with sufficient journalistic background to satisfy the instructor.

Spring (2)

LATIN

C-D Intermediate

L. P. Brown

Readings from Latin writers. First semester: Caesar. Second semester: Cicero and Ovid. Prerequisite: Two years of high school Latin or the equivalent.

Year course (3-3)

LIBRARY SCIENCE

LIBRARY SCIENCE

L10 Use of the Library

J. P. Stone

The chief object is to give a working knowledge of some of the resources of the library which every teacher and student should understand—the decimal classification, the card catalog, periodical indexes, and the most important reference books, together with some instruction in the preparation of bibliographies. The course will be a requirement of those added to the library's staff of student assistants, although it will not prepare the student to become a librarian.

Fall and Spring (2)

LIFE SCIENCE

The courses offered in Life Science are listed below. See pages listed after each subject for a description of the offerings under that designation. Anatomy, see Zoology, page 510; Bacteriology, page 78; Biology, page 79; Botany, page 80; Physiology, page 135; and Zoology, page 150.

MATHEMATICS

Lower division preparation for the liberal arts major in mathematics: Mathematics 3A, 3B, 4A, and 8 with an average grade of C or better. Two or more of the following are recommended: Astronomy 1, Economics 1A-1B, 2, Engineering 21, French A-B, German A-B, Physics 1A-1B or 2A-2B, Surveying 1A.

Liberal arts major (upper division): Twenty-four units including at least eighteen in upper division mathematics, the others being selected from Astronomy 107, Chemistry 111A-111B, 144, Physics 105A-105B, 112 and other approved courses. The major should be arranged in consultation with the chairman of the department and completed with a grade of C or better.

LOWER DIVISION COURSES

LA, LB, C, D, E, F, S Introductory Mathematics

The Staff

Courses A, B, C, D, and E are equivalent to those of the same name in high school but with possible variation in emphasis. Course F reviews and adds emphasis to certain topics in algebra and trigonometry, thus enabling the average student to carry analytic geometry and calculus more successfully. Such topics as the binomial theorem, theory of quadratic equations, trigonometric identities, and trigonometric equations are treated much more thoroughly than in the usual high school course. Course S provides a practical introduction to the theory and use of slide rules.

For most students, the time required for Mathematics A or B will be equal to that for a 3-unit course, and for Mathematics D, that for a 5-unit course, the latter beginning with a review of elementary algebra.

Students are expected to arrange and pay for such private instruction as will enable them to keep up with their classes in Mathematics A, B, and D. In other courses such assistance is not usually necessary. Courses C and D are offered each semester, others less frequently.

MATHEMATICS

College credit may be earned as indicated below, provided the equivalent courses have not been taken in high school.

LA Elementary Algebra (2)

LB Elementary Geometry (2)

C Trigonometry (3). Prerequisites: Mathematics A, B, and D.

D Intermediate Algebra (3). Prerequisites: Mathematics A.

E Solid Geometry (2). Prerequisites: Mathematics A, B, and D.

F Introductory College Mathematics (3). Prerequisites: Mathematics A, B, C, and D.

S Slide Rule (1). Prerequisites: Mathematics A, B, C, and D.

1 Elementary Calculus

Livingston

A general course in calculus and related topics, primarily for students of social and biological sciences who do not have time for the longer courses in analytic geometry and calculus. Not available to students who have credit for Mathematics 3B. With Mathematics D taken in high school or college, this meets the "Additional Year Course" requirement for the lower division. Prerequisites: Elementary algebra and geometry, and intermediate algebra, with satisfactory grades.

Fall and Spring (3)

3A-3B Analytic Geometry and Calculus

Livingston, Walling

Analytic geometry, differential calculus, and an introduction to integral calculus. Credit is allowed for 3A taken alone if desired. Prerequisites: Elementary algebra and geometry, intermediate algebra, and trigonometry, with satisfactory grades. Students whose preparation is deficient either in quality or quantity should enroll in the appropriate course or courses in Introductory Mathematics.

Year course (3-3)

4A-4B Solid Analytic Geometry and Calculus

Livingston, Walton

Integration, applications of integration, infinite series; solid analytic geometry, partial differentiation, and multiple integrals. Credit is allowed for 4A alone if desired. Prerequisites: Mathematics 3A-3B. Solid geometry is recommended.

Year course (3-3)

8 College Algebra

Gleason

Complex numbers, determinants, and theory of equations. Prerequisites: Trigonometry and either 1 or 3A.

Spring (3)

L40A Computational Mathematics

Selected topics in arithmetic, algebra, geometry, and trigonometry. The chief emphasis is placed on computation. Not open to students who have high school or college credit in trigonometry. Prerequisite: At least ninth grade mathematics.

Fall or Spring (3)

MATHEMATICS

L40B Computational Mathematics

More intensive work is done in topics considered in L40A. Graphic methods including use of the slide rule are introduced. Prerequisite: Mathematics L40A with a grade of C or better, or passing grades in one-half year each of intermediate algebra and trigonometry in high school, or permission of the instructor.

Spring (3)

UPPER DIVISION COURSES

102 Selected Topics in Algebra

Topics supplementary to those considered in Mathematics 8 and 111. Prerequisites: Mathematics 3A-3B and 8.

(Offered as needed)

104 History of Mathematics

Gleason

History of mathematics down to early modern times. Prerequisite: Mathematics 1 or 3A-3B.

Fall (3) (Offered in 1943-44 and alternate years)

105 College Geometry

Livingston

An extension of the high school course in plane geometry, dealing largely with triangles and circles. Several new procedures, including inversion, are introduced. Prerequisite: Mathematics 3A.

Fall (3) (Offered in 1942-43 and alternate years)

106 Projective Geometry

Livingston

Concurrence of lines, collinearity of points and other properties of figures not altered by projections; construction and study of ellipses, hyperbolas and parabolas by means of projections. Prerequisites: Mathematics 3A.

Fall (3) (Offered in 1943-44 and alternate years)

111 Higher Algebra

Walton

Linear dependence, matrices, quadratic forms, groups. Prerequisites: Mathematics 3A, 3B, 8, 4A, or permission of the instructor.

Spring (3) (Offered in 1942-43 and alternate years)

112 Analytic Projective Geometry

Walton

Projective coordinates, projective properties of loci of second and third order. Prerequisites: Mathematics 3A-3B, 4A-4B, 8, and 106.

Spring (3) (Offered in 1943-44 and alternate years)

117 Intermediate Calculus

Walton, Livingston

Essentially the same as Mathematics 4B with additional special work for advanced students. Prerequisites: Mathematics 3A, 3B, and 4A. Credit not allowed for both 4B and 117.

Spring (3)

118 Advanced Calculus

Livingston

Selected topics in advanced calculus, exclusive of differential equations. Prerequisite: Mathematics 4A-4B, or 4A with 4B taken concurrently.

Spring (3) (Offered occasionally)

MERCHANDISING

119 Differential Equations

Gleason

Ordinary differential equations of first and second order, with applications. Prerequisite: Mathematics 3A, 3B, 4A, 4B (4B concurrently if desired).

Spring (2) (Offered in 1943-44 and alternate years)

124 Vector Analysis

Worley

Addition, subtraction, multiplication, differentiation, and integration of vectors, with applications in geometry, mechanics, and mathematical physics. Some attention is given to divergence, gradient, and curl. Prerequisites: Mathematics 3A, 3B, 4A (4A concurrently if desired).

Spring (3) (Offered in 1942-43 and alternate years)

140 Probability and Statistics

Gleason

Statistical theory and method from the mathematical standpoint; applications in social and natural science. Prerequisites: Mathematics 4A and 8.

Fall (3) (Offered in 1942-43 and alternate years)

199 Special Study

The Staff

Study of materials mainly supplementary to the courses listed above. Prerequisites: Average grade of B or better in at least 12 units beginning with Mathematics 3A.

Fall and Spring (1 or 2, each semester)

MERCHANDISING

L20 Consumer Problems

Torbert

Growing importance of consumption as a field for study; consumer incomes in the United States; consumption and business cycles; bases of consumer choice-making; practical problems of buying food, clothing, shelter, transportation, insurance, etc.; family budgeting; a survey of the methods by which products reach the consumer; market structure and functions seen from the consumer's point of view.

Fall (3)

L24 Principles of Merchandising

Torbert

A study of retail stores, emphasizing the problems of store managers and merchandising executives; store location, organization, personnel, sales promotion, buying and handling of merchandise, inventory, turnover, and control methods. Changing conditions in retailing, problems of profitable operation under present conditions.

Spring (3)

L25 Principles of Salesmanship

Torbert

Theoretical and psychological backgrounds of salesmanship, newer concepts of selling; the selling of ideas and services; steps in a sale: attention, interest, desire, closing; the development of clientele and of good will; the personal factor in salesmanship.

Fall (3)

MUSIC

L26 Applied Salesmanship

Torbert

Classroom practice in selling; supervised work in cooperating stores, or outside selling; relationships between theory and practice in specific selling situations; incentive methods of payment in selling; the problem of sales managers in reducing selling costs.

Spring (2)

L26A Life Insurance Salesmanship

Torbert

A study of the special problems of life insurance selling, with emphasis on the psychological aspects of insurance selling, and on specific techniques for finding prospects, and for managing the sales interview. A course for students interested in life insurance selling, and for those planning to obtain life underwriter's certification. To be taken in conjunction with L26 (see above) and not available as a separate course.

Spring (26 and 26A, taken together, 3 units)

L27 Principles of Advertising

Torbert

A survey of advertising from the points of view of the business man and the consumer; business principles applied to advertising; basic psychological appeals employed; market analysis as an advertising tool; budgeting of appropriations; selection of mediums; layout, art work, copy; publicity devices; institutional advertising; the function of agencies; radio as a specialized advertising problem.

Spring (3)

MUSIC

Candidates for a teaching credential in music should refer to the statement "Admission to Teacher Training Curricula" on page 29 and to the other degree requirements on that page and those following. The curriculum for the A.B. Degree with a Special Secondary Credential in Music is on page 41.

Lower division preparation for the liberal arts major in music: Music 1B-1C-1D; 4A-4B; 4 units of Applied Music (study of voice or orchestral instrument); and Aesthetics 1A-1B.

Liberal arts major (upper division): twenty-four upper division units. These shall include Music 105A-105B; 106A; 107A; 119; 120; 121A; 4 units of Applied Music; Aesthetics 102A-102B; and 4 units of music activity credit (Music 111, 112, 113, 115, or 126).

At least a C average in upper division music courses is necessary.

It is recommended that students in meeting degree requirements and in choosing free electives, select from the following courses: English 56A-56B; French A-B; German A-B; History 4A-4B; 146A-B; Physics 2A-2B.

MUSIC

LOWER DIVISION COURSES

L1A Music Reading and Ear Training—Fundamentals of Music

**L. D. Smith
D. F. Smith**

The elements of music; scale construction; elementary music theory; drill in music reading both with syllables and with words; ear training, elementary music dictation. Basic course for all general elementary credential students. Music majors receive no credit.

Fall and Spring (2)

1B Music Reading and Ear Training—Musicianship **L. D. Smith**

Tonal and rhythmic dictation; rhythmic writing; sight singing. Basic course for music majors and minors. Text—Smith and Krone: Fundamentals of Musicianship Book I. Prerequisite: Music 1A, or the equivalent. Students not able to pass the departmental entrance examination in the fundamentals of music will take 1A without credit in preparation for this course.

Fall and Spring (2)

1C-1D Advanced Music Reading and Ear Training **L. D. Smith**

Tonal work in minor keys; modal scales; dissonant triads and seventh chords; interval feeling in all chords; rhythmic progression and elementary forms; rhythmic, melodic and harmonic dictation. Prerequisite: Music 1B.

Year course (2-2)

L2A String Instrument Class

Leib

Beginner's class in violin, viola, 'cello and string bass. Required of all music majors working for a Special Secondary credential unless this orchestral section is the major or minor field.

Fall and Spring (1)

L3A Woodwind Instrument Class

Leib

Beginner's class in oboe, clarinet, flute and bassoon. Required of all music majors working for a Special Secondary credential unless this orchestral section is the major or minor field.

Fall and Spring (1)

4A-4B Elementary Harmony

Springston

Scale construction, intervals, by-tones and diatonic harmonies. Transposition and original composition in the simpler forms. Text—Alchin: Applied Harmony Vol. I. Prerequisite: Music 1A-1B, or the equivalent, and at least one year of piano study.

Year course (3-3)

L6A Brass Instrument Class

Leib

Beginner's class in trumpet, French horn, baritone, trombone and tuba. Required of all music majors working for a Special Secondary credential unless this orchestral section is the major or minor field.

Fall and spring (1)

MUSIC

- L7A Music Materials for the Elementary School** **L. D. Smith**
 Study of the song material in the state music texts and in the supplementary texts. Appreciation materials applicable to the elementary school. Required course for all general elementary credential students.
 Prerequisite: Music 1A.
Fall and Spring (3)
- 8A-8B Keyboard Harmony and Accompanying** **Springston**
 Practical application of the principles of elementary harmony. Prerequisite one year of piano study. At least one year of high school harmony is desirable.
Year course (2-2) (Offered in 1943-44 and alternate years)
- 11A-B-C-D Women's Glee Club—Treble Clef** **L. D. Smith**
 Entrance upon examination.
Fall and Spring ($\frac{1}{2}$ - $\frac{1}{2}$)
- 12A-B-C-D Men's Glee Club** **Springston**
 Entrance upon examination.
Fall and Spring ($\frac{1}{2}$ - $\frac{1}{2}$)
- 13A-B-C-D Orchestra** **Leib**
 Permission of the conductor required for membership.
Fall and Spring (1-1)
- 15A-B-C-D A Cappella Choir** **D. F. Smith**
 Entrance upon examination.
Fall and Spring ($\frac{1}{2}$ - $\frac{1}{2}$)
- *L16A-L16B-L16C-L16D Individual Study of an Orchestral Instrument**
Fall and Spring (1-1)
- *L17A-L17B-L17C-L17D Individual Study of Voice**
Fall and Spring (1-1)
- *L18A-L18B-L18C-L18D Individual Study of Piano or Organ**
 Prerequisite: The ability to play artistically hymns and folk songs of the type found in the Golden Book of Favorite Songs.
Fall and Spring (1-1)
- 20A-B-C-D Chorus** **D. F. Smith**
 Open to anyone interested in singing standard choral works. No examination required.
Fall and Spring ($\frac{1}{2}$ - $\frac{1}{2}$)
- 26A-B-C-D Band** **Leib**
 Permission of the conductor required for membership.
Fall and Spring (1-1)

* See page 124, conditions under which credit may be given for music study under private instructors.

MUSIC

27A-27B Music for Enjoyment

Springston

A course designed for students with little or no musical background. Lectures and discussions as a basis for intelligent listening to concerts, radio programs, and class presentation of recorded music. Not open to music majors and minors.

Year course (1-1)

L28A-L28B Beginning Piano

Springston

Fundamental playing and reading technics for the pianoforte. Emphasis upon playing by ear, and the development of interpretative ability. No credit for music majors and minors.

Year course (1-1)

29A-B Class Voice

D. F. Smith

A class for beginners in the vocal field taking up the problems of breath control, tone placement, articulation and enunciation. Frequent performance before class required. Limited to 15.

Year course (1-1)

30A-B Chamber Music

Leib

String and woodwind ensembles. The consent of the instructor necessary for admission to class.

Year course (1-1)

UPPER DIVISION COURSES

105A-105B Advanced Harmony and Composition

Springston

Study of the possible types of modulation and chromatic harmonies: continuation of harmonic analysis and original composition. Text Alchin: Applied Harmony Vol. II. Prerequisite: Music 4A-4B.

Year course (3-3)

106A Counterpoint

D. F. Smith

Study of the five species of counterpoint with much practice in writing in such forms. Application of contrapuntal style to modern composition. Prerequisite: Music 4A-4B.

Fall (2) (Offered in 1943-44 and alternate years)

107A Form and Analysis

D. F. Smith

Aural and visual analysis of music forms through a consideration of structure, harmonic content, and style. Prerequisite: Music 105A-105B.

Spring (2) (Offered in 1943-44 and alternate years)

111A-B-C-D Women's Glee Club—Treble Clef

L. D. Smith

Entrance upon examination.

Fall and Spring ($\frac{1}{2}$ - $\frac{1}{2}$) (A maximum of 2 units in glee club may be counted toward the A.B. degree)

112A-B-C-D Men's Glee Club

Springston

Entrance by examination.

Fall and Spring ($\frac{1}{2}$ - $\frac{1}{2}$) (A maximum of 2 units in glee club may be counted toward the A.B. degree)

MUSIC

113A-B-C-D Orchestra

Leib

Permission of the conductor required for membership.

Fall and Spring (1-1) (A maximum of 4 units in orchestra may be counted toward the A.B. degree)

115A-B-C-D A Cappella Choir

D. F. Smith

Entrance by examination.

Fall and Spring ($\frac{1}{2}$ - $\frac{1}{2}$) (A maximum of 2 units in A Cappella choir may be counted toward the A.B. degree)

***L116A-L116B-L116C-L116D Advanced Individual Study of an
Orchestral Instrument**

Fall and Spring (1-1)

***L117A-L117B-L117C-L117D Advanced Individual Study of Voice**

Fall and Spring (1-1)

***L118A-L118B-L118C-L118D Advanced Individual Study of Piano
or Organ**

Fall and Spring (1-1)

119A Instrumental Conducting

Leib

Conducting and reading of orchestral scores.

Fall and Spring (1)

120A Vocal Conducting

D. F. Smith

The theory of vocal conducting together with practical experience gained from directing the college chorus. Prerequisite: Music majors with senior standing.

Fall and Spring (1)

121A Instrumentation

Leib

Arranging of music for full orchestra. Selected works of pupils to be performed by standard orchestras.

Spring (2)

126A-B-C-D Band

Leib

Permission of the conductor required for membership.

Fall and Spring (1-1) (A maximum of 4 units in band may be counted toward the A.B. degree)

130A-130B Chamber Music

Leib

String quintet and woodwind ensembles only. Permission of the instructor necessary for class membership.

Year course (1-1)

* See page 124, conditions under which credit may be given for music study under private instructors.

PHILOSOPHY

CONDITIONS UNDER WHICH CREDIT MAY BE GIVEN FOR MUSIC STUDY UNDER PRIVATE INSTRUCTORS

Credit may be allowed for private instruction in music under the following conditions:

1. The applicant for such credit must be a regularly enrolled student in the music department of the college.
2. The instructor giving such private work must be a regularly State-certificated teacher, or else be approved by the Music Department. All private work and the names of all such teachers must be registered in the office of the music department chairman at the beginning of the semester.
3. In the case of first semester private study, a placement examination conducted by the music department faculty at the beginning of the semester will show the status of the student at the beginning of his work.
4. Evidence that the standards of the Music Department have been met will be shown by an examination conducted by the music department faculty at the end of the semester.

PHILOSOPHY

LOWER DIVISION COURSES

Philosophy 3A, 3B The History of Thought

Mead

A study of the basic ideas of Western Civilization in their historical development. The making of the modern mind as revealed in the development of philosophy and in the relations between philosophy and science, art and religion. The history of ideas against the social and political backgrounds from which they came. Prerequisite: Sophomore standing, or permission of instructor.

Fall, Spring (3, 3)

5A Introduction to Philosophy

Mead

The recurring problems of philosophy and the making of the modern mind. Prerequisite: Sophomore standing, or permission of instructor.

Fall (3)

5B Knowledge and Society

Steinmetz

Scientific method and the persistent topics of philosophy in their bearing upon the social problems of the day. Prerequisite: Philosophy 5A, except that sophomores planning to major in natural science may be admitted without prerequisite.

Spring (3)

UPPER DIVISION COURSES

105B Knowledge and Society

Steinmetz

Same as Philosophy 5B, except that upper division students will be held to more exacting contribution.

Spring (3)

PHYSICAL EDUCATION

120 Reflective Thinking (Logic)

Mead

Analysis of fallacies, and the logic of argument and proof; also examination of reflective procedures in various fields of knowledge, and review of some psychological descriptions of thought. Prerequisites: Psychology 1A and Philosophy 5A.

Spring (3) (Offered in 1942-43 and alternate years)

130 Conduct (Ethics)

Mead

The meaning of morality; motives and sources of belief, aspiration, ideal; psychological and sociological factors; representative ethical systems; relation of ethics to other axiological studies.

Spring (3) (Offered in 1943-44 and alternate years)

PHYSICAL EDUCATION

Men's Department

Candidates for a teaching credential in physical education should refer to the statement "Admission to Teacher Training Curricula" on page 29. For the teacher training curriculum in physical education see page 44.

LOWER DIVISION COURSES

A two-hour activity course each semester is required for the two years of lower division. A medical examination is given each student when entering and the work is fitted to his needs. Individual Adapted Activity sections to fit the special needs of the individual student are included. The content of the required two years is planned to give each student an opportunity to choose those sports which have carry-over value into after life. Opportunity is given all students to take part in the regular competitive sports program.

Intercollegiate sports may be substituted for required lower division courses as long as not more than two semesters of any one sport is substituted.

L1A-1B Freshman Activity

Year course, beginning either Fall or Spring ($\frac{1}{2}$ - $\frac{1}{2}$)

L1C-1D Sophomore Activity

Year course, beginning either Fall or Spring ($\frac{1}{2}$ - $\frac{1}{2}$)

Class sections are so arranged that the student may choose the activity he is most desirous of learning. Fundamentals of the sports listed are taught during a portion of the class hour.

Intercollegiate Sports

L2A-L2B-L2C-L2D Golf Spring (1)

L3A-L3B-L3C-L3D Track Spring (1)

L4A-L4B-L4C-L4D Baseball Spring (1)

L5A-L5B-L5C-L5D Basketball Spring (1)

L6A-L6B-L6C-L6D Tennis Spring (1)

PHYSICAL EDUCATION

- L7A-L7B-L7C-L7D** Boxing Spring (1)
L8A-L8B-L8C-L8D Wrestling Spring (1)
L9A-L9B-L9C-L9D Cross Country Fall (1)
L10A-L10B-L10C-L10D Swimming Spring (1)
L13A-L13B-L13C-L13D American football Fall (1)
L13X-L13Y-L13Z Spring football Spring ($\frac{1}{2}$)
L15A-L15B-L15C-L15D Badminton Spring (1)

The following courses fulfill degree requirements for physical education majors and meet State requirements for teaching credentials in physical education.

30 Emergencies

C. R. Smith

The accepted procedure in meeting the emergencies which daily arise in schoolroom, play or athletic field, beach, mountains, or any of the many places where the physical director is called on for first aid. Special attention given to the arrangement of the apparatus and the activities so that many of the most common accidents are prevented or minimized. Course content qualifies for Red Cross Certificate.

Fall (2)

L53 Physical Education in the Elementary School

Schwob

The content of the State program in physical education forms the basis of the course. Two lectures, two one-hour laboratory periods per week. May be taken as a substitute for 1D.

Required of all candidates for the elementary school credential and the special credential in physical education.

Fall and Spring (2 $\frac{1}{2}$)

L62A Gymnastic Activities

C. E. Peterson

Theoretical and practical work in marching, free exercises, and light and heavy apparatus. Emphasis on progression and method of presenting material. The simplest and most explanatory terminology.

Fall (2) (Offered in 1943-44 and alternate years)

L62B Gymnastic Activities

C. E. Peterson

Acquisition of proficiency in the performance of a great group of gymnastic stunts always popular in the gymnasium and on the playground. Work of the recreational or self-interesting type rather than the formal. Tumbling, stunts, and pyramid-building given chief attention, although games of low organization are also considered.

Spring (2) (Offered in 1943-44 and alternate years)

L66 Playing Rules of Modern Games

C. R. Smith

Thorough study of latest rules of modern major and minor sports.

Fall and Spring (1)

PHYSICAL EDUCATION

L72 Principles of Physical Education **Calland**

Cultivation of a favorable attitude for a professional study of physical education. Ideals and aims of physical education and the relation of physical education to school and society stressed.

Fall (2)

UPPER DIVISION COURSES

L154 Organization and Administration of Secondary Physical Education **Gross**

Study of general and specific problems that confront physical education departments in junior and senior high schools and in colleges. Prerequisite: Physical Education L72.

Spring (3)

L155 Applied Anatomy and Kinesiology **Young**

A scientific analysis of the structure, function and relationship of the organs, bony cavities, bones and joints of the skeletal, muscular, nervous and circulatory systems. In addition, the student will apply the results of the analysis in the selection of activities in relation to mechanical strength and durability as influenced by anatomical factors. Prerequisite: Zoology 20, or 108.

Spring (3) (Offered in 1943-44 and alternate years)

L156A Sports Methods **Gross, C. R. Smith**

Different theories and methods of teaching the more highly organized sports: basketball and baseball.

Fall (2) (Offered in 1942-43 and alternate years)

L156B Sports Methods **Young, C. E. Peterson**

Methods of teaching those sports most adaptable to the intramural and recreational programs: golf, handball, soccer, speedball, volley ball, badminton, archery, tennis, swimming, track, etc. Prerequisite: P. E. L 66.

Spring (2) (Offered in 1942-43 and alternate years)

161 Folk Dancing **Schwob**

Practice in folk and clog dancing. Methods of presentation, study of costumes and customs related to the dance. Notebooks required. Open to all upper division men and women.

Spring (2) (Offered in 1943-44 and alternate years)

L166 Technique of Officiating **Gross**

Review of material presented in Physical Education L66. Methods of officiating all the sports common to the school or college program; also methods of training student officials. Practice in the handling of elementary, junior high, senior high and intramural college competition. Prerequisite: Physical Education L66.

Spring (2)

L168 Physiology of Exercise **Bennett**

A non-laboratory course emphasizing the relation of physiology to muscular exercise in physical activities. Prerequisite: Zoology 20 or the equivalent.

Spring (2) (Offered in 1942-43 and alternate years)

PHYSICAL EDUCATION

L169A Technique of Teaching Activities

Young

Directed leadership in activities. A course preliminary to practice teaching in which students are given opportunity to develop teaching techniques in an orderly, detailed, directed, and supervised experience. Requirements include the handling of classes, construction of tests, lesson plans and preparation of a syllabus. One hour of lecture, and two hours of laboratory per unit. Recommended that it be taken in the junior year. Prerequisite: Admission to teacher training.

Fall (2)

L169B Technique of Teaching Activities

Young

Continuation of directed leadership in activities as in L169A. Individual study will include conferences with instructor regarding class program, compilation of working bibliography, planned reading, school visitation, and preparation for practice teaching. Conferences and two hours of laboratory required. Prerequisite: Physical Education L169A.

Spring (1)

L170 Recreational Leadership

Shafer

Fundamentals of recreational leadership developed by instruction in club and camp activities, the study of school recreational needs and facilities, and of civic recreation. Open to all upper division men and women. Recommended to students interested in social service.

Spring (2) (Offered in 1942-43 and alternate years)

L180 Theory of Coaching Football

Calland

Methods of coaching football. Details of teaching individual fundamentals, offensive and defensive team play, strategy, and conditioning of athletes. Two hours of lecture and three hours of laboratory.

Spring (2)

L190 Individual Program Adaptation

Young

An introductory course dealing with the analysis and evaluation of aims, techniques, and procedures in the preventive and corrective physical education program. Special emphasis will be given to such problems as survey of the situation, recognition of divergencies, selecting and assigning of students, instructional programs, motivation, follow-up, teacher limitations, and public relations. Prerequisite: P. E. 155, Zoology 20, and senior standing.

Fall (3) (Offered Fall 1942-43 and alternate years)

WOMEN

Women's Department Candidates for a teaching credential in physical education should refer to the statement "Admission to Teacher Training Curricula" on page 29, and to the outline for the A.B. Degree with Special Credential in Physical Education on pages 46 and 47.

LOWER DIVISION COURSES

Two hours of directed physical activity are required throughout the freshman and sophomore years. Freshman students may choose courses from the following, L1A, L1B, L1C. Sophomore students may choose from all activity courses offered.

PHYSICAL EDUCATION

L1A Fundamental Skills

Bennett

Practice in efficient fundamental body movements.

Fall and Spring (½)

L1B Folk Dancing

Pease

L1C Rhythmic Skills

Pease

Fundamental movements, simple dance forms and improvization. Both L1B and L1C required of all women candidates for the special credential in physical education.

Fall and Spring (½)

Sophomores may elect from the following: Physical Education Staff

L2A-L2B Folk Dancing

L3A-L3B-L3C-L3D Modern Dance

L4A-L4B Social Dancing—for men and women

L5A-L5B Archery

L6A-L6B Badminton

L7A-L7B Golf

L8A-L8B-L8C-L8D Seasonal Sports

L9A Stunts and Tumbling

L11A-L11B Tennis

L12A-L12B Advanced Modern Dance Laboratory experiments in advanced choreography and percussion accompaniment. For men and women. Prerequisites: 1C and 3A for women, 1C for men.

Fall and Spring (1-1)

Any of the above activities may be taken for additional credit.

L53 Physical Education in the Elementary School

Schwob

The content of the State program in physical education forms the basis of the course. Two lectures, two one-hour laboratory periods per week. Required of all candidates for the elementary school credential and the special credential in physical education.

Fall and Spring (2½)

Sports

1. The individual activities, tennis, golf, archery, badminton and dancing are offered through the year. Candidates for the special credential in physical education select *one* as a major activity and two others as minors. Skills in the activities thus selected must be maintained as prerequisite to the senior course, Physical Education L185. (See page 131.)

2. The seasonal group sports are volley ball, basketball, hockey, speed-ball or soccer, and baseball. Candidates for the special credential in physical education must participate in at least *two seasons of each*.

PHYSICAL EDUCATION

3. The Women's Athletic Association sponsors the intramural sports program. Under its direction competition in dual and group games is promoted throughout the year. Open to all college women.

UPPER DIVISION COURSES

Open to all Women. Required of women candidates for the special credential in physical education.

L153 Administration of Secondary Physical Education **Schwob**

Study of administrative problems applied to high school situation including organization of instructional and recreational programs, classification of students, and routine administration.

Spring (2) (Offered in 1942-43 and alternate years)

L155 Applied Anatomy and Kinesiology **Young**

A scientific analysis of the structure, function and relationship of the organs, bony cavities, bones and joints of the skeletal, muscular, nervous and circulatory systems. In addition the student will apply the results of the analysis in the selection of activities in relation to mechanical strength and durability as influenced by anatomical factors. Prerequisite: Zoology 20 or 108.

Spring (3) (Offered in 1943-44 and alternate years)

L157A-L157B Sports Methods **Shafer**

Practice for skill, study of rules, and of coaching methods. Prerequisite: A season's experience in at least four of the following sports: volley ball, basketball, hockey, speedball, soccer, baseball.

Year course (2-2)

L160 Principles of Teaching Gymnastics **Schwob**

Gymnastic materials and methods followed by practice in teaching marching, gymnastics and use of apparatus.

Fall (2) (Offered in 1943-44 and alternate years)

161 Folk Dancing **Schwob**

Practice in folk and clog dancing. Methods of presentation, study of costumes and customs related to the dance. Notebooks required. Open to all upper division men and women.

Spring (2) (Offered in 1943-44 and alternate years) Open to men and women

L164A-L164B Methods in Modern Dance **Pease**

Laboratory experiments in advanced choreography and percussion accompaniment. Historical survey and practical experience in production techniques and teaching methods. Two activity periods and one lecture per week. For men and women. Prerequisites same as for L12A.

Year course (2-2) (Offered in 1942-43 and alternate years)

PHYSICAL SCIENCES

L168 Physiology of Exercise

Bennett

A non-laboratory course emphasizing the relation of physiology to muscular exercise in physical activities. Prerequisite: Zoology 20 or the equivalent.

Spring (2) (Offered in 1942-43 and alternate years)

L169 Technique of Teaching Activities

Schwob

Observation, lesson planning and teaching in college classes.

Fall and Spring (3)

L170 Recreational Leadership

Shafer

Fundamentals of recreational leadership developed by instruction in club and camp activities, the study of school recreational needs and facilities, and of civic recreation. Open to all upper division men and women. Recommended to students interested in the recreational aspects of social service.

Spring (2)

L173 Principles of Physical Education

Schwob

A study of the more significant influences shaping the trend of physical education in the past and present. General philosophy and principles of physical education and its relation to general education.

Fall (2) (Offered in 1942-43 and alternate years)

L177 Individual Program Adaptations

Schwob

Adjustments of the physical education program to the physical needs and capacities of individuals: problems concerning protective and preventive measures which are not highly specialized corrective phases.

Spring (2) (Offered in 1942-43 and alternate years)

L185 Technique of Individual Sports

Shafer

A course summarizing rules, teaching methods, and individual playing ability. A required senior course. Can not be taken until all requirements regarding sports and games have been fulfilled. (See page 129.)

Fall (1)

PHYSICAL SCIENCES

The courses offered in the Physical Sciences are listed below. See pages listed after each subject for a more complete description of the offerings under that designation. Astronomy, see page 77; Chemistry, page 81; Geology, page 107; Physical Science, page 132; and Physics, page 133.

PHYSICAL SCIENCE

Lower division preparation for the liberal arts major in physical science and for the junior certificate: Fulfillment of the departmental requirements for upper division work in at least two of the following sciences: Astronomy, chemistry, geology, and physics. Recommended: A reading knowledge of French and German.

PHYSICAL SCIENCES

Liberal arts major (upper division) in physical science, required: Twenty-four units of upper division work in two or more of the physical sciences: Chemistry, geology, and physics, with a minimum of six units in each of two of these sciences.

LOWER DIVISION COURSE

1A Introduction to Physical Science

Watson

A survey course dealing with the nature of man's physical universe. Emphasis will be upon materials chosen from topics in astronomy and physics to show the nature and development of the scientific method and man's use of energy. Not open to students who have had high school or college physics or astronomy. May be taken with or without plans to continue with 1B.

Fall and Spring (3)

1B Introduction to Physical Science

Watson

A continuation of Physical Science 1A. Emphasis will be upon units chosen from geology and chemistry to show the origins of natural materials and their use by man in the modern world. Not open to students who have had high school or college chemistry or geology. May be taken with or without credit in Physical Science 1A.

Spring (3)

10 Elementary Photography

Kreiger

This course seeks to provide an elementary knowledge of dark room techniques and the theory of photography including printing, enlarging, and developing. Two lectures and one three-hour laboratory required each week.

Fall and Spring (3)

L40 Man and His Physical World

Watson

A brief survey of the nature of the scientific method and of selected topics in physical science. Materials will be chosen from physics, chemistry, astronomy, and geology in order to give some background for an understanding of the relations of physical science to modern life. Not open to students who have had both high school or college physics and chemistry or either of these subjects together with either astronomy or geology. *Open only to students enrolled in a two-year curriculum.*

Fall and Spring (3)

55 Elements of Fire Protection

Moe and Staff

A course designed to train students in the fundamental principles of civilian fire protection and defense. The outline of the course includes care, operation, and maintenance of fire fighting apparatus; the proper use of fire hose, fire streams, and pumps. Work in the proper handling of incendiaries will also be given. One lecture and demonstration hour on the campus and one laboratory hour at a local fire station will be required per week.

Fall and Spring (1)

PHYSICS

PHYSICS

Lower division preparation for the liberal arts major in physics and for the junior certificate: Physics 1A-1B-1C-1D; Chemistry 1A-1B; Mathematics 3A-3B and 4A-4B, or their equivalents. Recommended: A reading knowledge of French and German. A maximum of 12 units of lower division physics may be applied toward the degree.

Liberal arts major (upper division) in physics, required: Twenty-four units of upper division work in physics including Physics 105A-105B and 110A-110B. Six of the twenty-four units may be elected in related subjects and deviations from these requirements may be made on consultation with the chairman of the department.

LOWER DIVISION COURSES

1A-1B Mechanics and Heat

Moe, Worley

Mechanics, properties of matter, and heat. A development of the fundamental ideas which underlie the subject of physics, and the application of them in the discussion of practical problems. Lectures, text assignments, problem sets, and experimental laboratory work. Two lectures, and one laboratory period each week. Prerequisites: High school physics or chemistry, and trigonometry. Students deficient in any part of this requirement may enroll only with the permission of the instructor.

Year course (3-3)

1C-1D Electricity, Magnetism, Sound, and Light

Baird

A continuation of Physics 1A-1B for students in the sophomore year. Two lectures and one laboratory period each week.

Year course (3-3)

2A-2B General

Baird

Properties of matter, mechanics, heat, sound, light, electricity, and magnetism. A nonengineering course. Lectures, demonstrations, and discussions. Prerequisite: Two years of high school mathematics.

Year course (3-3)

3A-3B Physical Measurements

Baird

Laboratory work in mechanics, properties of matter, heat, sound, light, electricity, and magnetism. Usually taken in conjunction with Physics 2A-2B.

Year course (1-1)

54 Physics of Sound and Light

Worley

An elementary treatment of the physical basis of sound and light, with practical applications. The course is designed to meet the needs of either the general student or the student of aesthetics. Fulfills the natural science requirement. (Credit is not allowed to students who take Physics 1D or 2B.) Prerequisites: Lower division requirements in algebra and geometry (pp. 24, 26). A high school or college course in a physical science is recommended but not required.

Fall (3)

PHYSICS

UPPER DIVISION COURSES

105A-105B Analytical Mechanics

Moe

Treatment of fundamental principles of statics, kinematics and dynamics of particles and rigid bodies. Prerequisites: Physics 1A-1B or 2A-2B and a working knowledge of calculus.

Year course (3-3) (Offered in 1942-43 and alternate years)

106 Optics

Worley

A review of reflection, refraction and dispersion, with applications to optical instruments, followed by a survey of phenomena indicative of the physical nature of light: interference, diffraction, polarization, and spectral radiation. Prerequisite: Eight units in physics.

Fall (3) (Offered in 1942-43 and alternate years)

106L Optical Measurements

Worley

Laboratory work to accompany Physics 106.

Fall (1) (Offered in 1942-43 and alternate years)

107A-107B Electrical Measurements

Worley

Laboratory work designed to accompany Physics 110A-110B. Emphasis placed on the theory and use of electrical measuring instruments.

Year course (1 or 2 units for the year) (Offered in 1943-44 and alternate years)

108 Modern Physics

Worley

An introduction to physical investigations of the last half-century. Atomic structure and quantum theory in the light of high-vacuum phenomena, series in optical spectra, natural and induced radioactivity, and allied subjects. Prerequisite: Eight units in physics.

Spring (3) (Offered in 1942-43 and alternate years)

108L Modern Physics Laboratory

Worley

Laboratory, to accompany Physics 108.

Spring (1) (Offered in 1942-43 and alternate years)

110A Introduction to Electricity and Electromagnetism

Worley

Elements of the mathematical theory of electrostatics, of magnetostatics and magnetism, and of steady and varying currents. Students are encouraged to accompany the course with 1 unit of laboratory work. Prerequisites: Eight units in physics, and Mathematics 3A-3B.

Fall (3) (Offered in 1943-44 and alternate years)

110B Principles of Electromagnetism and Electronics

Worley

A more complete study and an extension of the material surveyed in Physics 110A, illustrated with practical applications. Prerequisites: Physics 110A and consent of the instructor.

Spring (3) (Offered in 1943-44 and alternate years)

PHYSIOLOGY

112 Advanced Heat and Thermodynamics **Moe**
Thermal properties of matter. An introduction to the kinetic theory of gases and the laws of thermodynamics. Prerequisites: Eight units in physics and a working knowledge of calculus.

Spring (3) (Offered in 1943-44 and alternate years)

112L Advanced Heat Laboratory **Moe**
Laboratory work in thermal expansion, specific heat, heat of combustion, radiation and other related topics in advanced heat. Designed to accompany Physics 112.

Spring (1) (Offered in 1943-44 and alternate years)

113L Pyrometry Laboratory **Moe**
Laboratory work in the calibration and use of various temperature measuring devices. Prerequisite: Eight units in physics.

Spring (1) (Offered in 1942-43 and alternate years)

114 Sound Waves and Acoustics **Moe**
A study of wave motion and its applications to the production, transmission and reception of sound. Architectural acoustics, speech and hearing, acoustical and musical instruments. Prerequisite: Eight units in physics.

Fall (3) (Offered in 1943-44 and alternate years)

114L Advanced Sound Laboratory **Moe**
Laboratory work in the problems of wave motion, standing waves, velocity of sound in various media, diffraction and interference, of sound. Designed to accompany Physics 114.

Fall (1) (Offered in 1943-44 and alternate years)

115L Applied Acoustical Measurements **Moe**
Laboratory work in various practical applications of acoustics. Directional and frequency characteristics of loudspeakers and microphones. Architectural acoustics. Prerequisite: Eight units in physics.

Fall (1) (Offered in 1942-43 and alternate years)

199 Special Study **Baird, Moe, Worley**
Reading or work on special problems in physics. Admission by consent of the instructor. Credit and hours to be arranged in each case. Open to students who have completed at least eight units of work in the department with grade of A or B.

Fall and Spring (1 or 2-1 or 2)

PHYSIOLOGY

LOWER DIVISION COURSES

1A Human Physiology **Crouch**
A lecture course considering the functions of the human body. Prerequisites: Elementary chemistry and high school or college biology or zoology. Three hours of lecture per week.

Spring (3)

POLITICAL SCIENCE

1C Human Physiology

Crouch

A study of the human functions through laboratory experiments and demonstrations. Prerequisites: Physiology 1A completed or in progress. Six hours of laboratory per week.

Spring (2)

UPPER DIVISION COURSES

101 Cellular Physiology

Darsie

A study of the vital activities of protoplasm, stressing the various physicochemical relationships involved. Laboratory study of both plant and animal material will serve as an introduction to the methods of modern experimental biology. Two hours of lecture and three hours of laboratory per week. Prerequisite: One year of Life Science in college and three units of college chemistry. Additional training in chemistry and physics is desirable.

Fall (3) (Offered in 1942-43 and alternate years)

POLITICAL SCIENCE

The minor in political science: from twelve to eighteen units of work is recommended. At least half the work should be chosen from upper division courses.

It is suggested that students who expect to major in political science plan their lower division work to include both Political Science 1A-1B and 71A-71B, and either Economics 1A-1B or History 4A-4B.

LOWER DIVISION COURSES

1A-1B Comparative Government

Leonard

A comparative study of typical governments. Semester I: England, France, and Switzerland. Semester II: Italy, Germany, Russia, and Japan.

Year course (3-3)

71A-71B American Government and Politics

Osborn

71A—Governmental organization in the United States; the federal system, organization, powers and functions of the legislative, executive and judicial branches of the national government, and the expansion of its activities.

71B—Development of the means of democratic control of government in the United States; the history, motivation, methods and control of political parties; party machines; election systems; influence of minority groups; the lobby; the press.

This course is not open to freshmen.

Year course (3-3)

UPPER DIVISION COURSES

101 American Institutions

Leonard

A study of the principles of the Constitution of the United States, and a survey of the political and social institutions which have developed under it.

POLITICAL SCIENCE

All candidates for the bachelor's degree are required by state law to secure credit in this course, unless they have completed one of the following courses: History 171A-171B, 173A-173B, Political Science 113, 175A-175B. This course is offered only in the fall semester.

Enrollment is limited to students of junior or senior standing, except with the consent of the instructor.

Fall (2)

111 Theory of the State

Leonard

The nature of the State, its organization and activities, and its relation to the individual and to other states. Special attention will be given to recent developments in the field of political thought.

Fall (3) (Offered in 1942-43 and alternate years)

113 American Political Ideals

Leonard

Underlying theories and principles of American governmental policy.

Spring (3) (Offered in 1942-43 and alternate years)

136A-136B Problems of the Pacific Area

Osborn

Particular emphasis during the first semester on the development through the 19th Century of the governmental problems of the Far East, both internal and international. The second semester will be devoted to a consideration of the 20th Century aspects of these problems.

Year course (3-3)

141 Theories of International Relations

Osborn

The development of ideas concerning international relations from ancient through modern times. Theories of nationalism, imperialism, internationalism, and cosmopolitanism will be reviewed and their validity considered in the light of modern experience.

Fall (3)

133A-133B Principles of International Law

Osborn

This course is concerned with the function of law in the international community. The historical development of the theory and rules of international law, the application of international law in international relations and the application of international law in national courts will be studied.

Year course (3-3) (Time of offering to be supplied later)

142 International Organization

Osborn

Prewar attempts at international organization, the effect of the World War on ideas of international relationships, postwar attempts at organization. Special attention will be given to the organization and development of the League of Nations, its machinery, accomplishments and failures, and to national attitudes toward cooperation since the war.

Spring (3)

PSYCHOLOGY

143A-143B Principles of Public Administration in the United States

Osborn

A study of the development of executive agencies in the American federal government and the relationship between these agencies and the changes in American concepts concerning the proper field of governmental activity.

Year course (3-3) (Offered in 1943-44 and alternate years)

175A-175B—American Constitutional Development

Leonard

A study of the work of the Convention of 1787, and of significant phases of American constitutional law.

Year course (3-3) (Offered in 1943-44 and alternate years)

PSYCHOLOGY

Lower division preparation in psychology for advanced work and junior standing. Required: Psychology 1A-1B, Zoology 1A-1B or Biological Science 10A-10B, Philosophy 3A-3B or 5A-5B. Recommended: French, German, chemistry, physics, anthropology, and sociology.

LOWER DIVISION COURSES

1A General

Steinmetz, Peiffer, Mead

An elementary survey of normal adult psychology, focused upon personality; the subjective and objective aspects of behavior. Furnishes basis for all other courses in psychology. Prerequisite: Sophomore standing, or permission of instructor.

Fall and Spring (3)

1B General

Steinmetz

A continuation of general psychology designed to familiarize the student with (1) elementary experimental methods, (2) famous experiments in psychology, and (3) some one topic (not included in upper division courses) in which he pursues an independent experimental approach. Prerequisite: Psychology 1A.

Spring (3)

4A Applied

Peiffer

Applications of psychology to problems of the individual in learning, making social adjustments, choosing a vocation, developing desirable personal traits, and achieving success and happiness. Survey of psychology as applied in education, music, art, speaking, writing, law and medicine. Prerequisite: Psychology 1A. Recommended: Psychology 1B.

Fall (3)

4B Psychology Applied in Business

Applications of psychology to a wide range of problems encountered by the man in business. Motives, attitudes, habits, and traits in their relation to behavior of employer, employee, and executive. Advertising, salesmanship, and problems of selecting, placing and increasing the efficiency of employees. Business cycles, and business research. Prerequisite: Psychology 1A. Recommended: Psychology 1B and Psychology 4A.

Spring (3) (Not offered in 1942-43)

PSYCHOLOGY

L45 Psychology and Life

Peiffer

An elementary survey of normal adult psychology, focused upon psychological principles in relation to life situations. *Open only to students enrolled in a two-year curriculum.* Prerequisites: Sophomore standing or permission of the instructor.

Fall and Spring (3)

UPPER DIVISION COURSES

102A Genetic: Child

Steinmetz

This course represents the main effort of the psychology department to provide an orientation toward parenthood. The course has been developed in recognition of the need for the establishment of parental-domestic adjustment through the study of child growth and development from the prenatal period to adolescence and through common knowledge by parents of relevant material in genetics and child psychology; emphasis is practical.

Fall (3)

102B Genetic: Adolescence

Survey of the wealth of knowledge in physiology, sociology, and psychology recently made available to parents and professional workers with youth just before, during, and after puberty.

Spring (3) (Not offered in 1942-43)

105 Mental Testing

A brief history of intelligence testing and the fundamental assumptions underlying the construction of tests. The Stanford revision of the Binet-Simon test illustrated by demonstrations. Each student required to give at least 20 individual tests. Group intelligence tests discussed and demonstrated. Prerequisites: Psychology 1A and Education 102A. Recommended: Psychology 1B, 102, Education 140.

Fall (3) (Not offered in 1942-43)

118 Mental Hygiene

Problems, personality adjustment, emotional problems, attitudes, conflicts, neurotic behavior, conduct disorders of both child and adult. The beginnings of undesirable attitudes and habits and methods of treating them are stressed more than serious cases of maladjustment which are either incurable or problems for a psychiatrist. The methods of building wholesome personality are emphasized more than the analysis of extreme disorders. Prerequisite: Psychology 1A. Recommended: Psychology 1B, 102.

Spring (3)

145 Social Psychology

Steinmetz

Personality as it develops in relation to social environment. Suggestion, imitation, leadership, the crowd, public opinion, social control, prejudice, propaganda, sex differences, race differences, etc. Prerequisite: Psychology 1A. Recommended: Psychology 4A.

Spring (3)

SECRETARIAL TRAINING

150 Abnormal Psychology

Steinmetz

The relation of psychology to the psycho-neuroses and insanity; the appearance of abnormal traits in incipient stages of mental disturbances. Methods of diagnosis and early treatment.

Fall (3)

160 Experimental Psychology of Learning

Introduction to instrumental and comparative psychology and to methods of research in the development of behavior theory. Prerequisite: 5 units of other work in the department and consent of the instructor; required of those seeking a major.

Fall (3) (Not offered in 1942-43)

SECRETARIAL TRAINING

LA Business Mathematics

Bromley

A practical course in the mathematics of business. A thorough study of interest, compound interest, discount, amortization tables, insurance rates, etc.

Fall and Spring (1) (No credit will be counted toward A.B. degree requirements, except in the curricula leading to the Business Education Credential)

L1A-L1B Typewriting

Amsden

A rapid development of a thorough command of a keyboard by the touch method. The acquisition of speed and the artistic arrangement of typewritten material with special reference to commercial forms, tabulation and billing; specifications, legal forms, and preparation of manuscripts; transcription, mimeographing, etc. Eight hours lecture and laboratory practice.

Year course (3-3) (No credit will be counted toward A.B. degree requirements except in the curricula leading to the Business Education credential)

L2A Typewriting

Amsden

A short course designed for those not wishing to enter the business office but desiring a knowledge of the use of the typewriter. Five hours laboratory practice.

Spring (2)

L3A Office Methods and Appliances

Wright

Practice and principles of office management, including organization, arrangement and operation. Study and use of modern office appliances such as the multigraph, mimeograph, filing devices, calculating and book-keeping machines. Prerequisite: Secretarial Training 1A or its equivalent.

Fall and Spring (3) (No credit will be counted toward A.B. degree requirements except in the curricula leading to the Business Education Credential)

SOCIAL SCIENCES

L5A-L5B Stenography

Amsden

An intensive course designed for the practical preparation of office secretaries. A thorough study of the Gregg System. Development of the ability to read and write shorthand rapidly and correctly, both literary and commercial. The shorthand speed necessary to pass a civil service examination is attained by the end of the year.

Year course (5-5)

L6A-L6B Advanced Stenography

Amsden

Development of speed in writing and transcription. Advanced dictation on letter forms, legal forms, speeches, and literary and technical material.

Year course (3-3)

English in Business (*See English, page 99*)

SOCIAL SCIENCES

The courses offered in the Social Sciences are listed below. See pages listed after each subject for a more complete description of the offerings under that designation. Anthropology, see page 72; Economics and Commerce, page 84; Geography, page 105; History, page 111; Political Science, page 136; Social Science, page 141; and Sociology, page 142.

SOCIAL SCIENCE

Lower division preparation for the liberal arts major in social science: Fulfillment of the departmental requirements for upper division work in at least three of the following sciences: Anthropology, economics, geography, history, political science, sociology.

Liberal arts major (upper division) in social science, required: Twenty-four units of upper division work including a concentration of twelve upper division units in one of the following fields and six units in each of two others: Anthropology, economics, geography, history, political science, sociology.

This major is available only to students who are preparing for graduate work in anthropology, political science, or sociology, and to those enrolled in certain preprofessional and other curricula. Official approval for candidacy for a degree with a social science major must be obtained from the dean of liberal arts.

LOWER DIVISION COURSES

1A Contemporary Political, Social and Economic Problems Greer

An analysis of major problems of the present day with reference to the conditions out of which they arise and with regard to their essential unity and interrelationships. An attempt to introduce the student to sound methods of approach in dealing with these problems.

Fall and Spring (3)

SOCIOLOGY

1B American Trends Since 1918

Greer

Main currents of American life since the World War. Stress on immediate background of modern institutions. Aims to familiarize students with the major events which have occurred during the lifetime of the present college generation.

Fall and Spring (3)

L40 Contemporary Problems

Greer

A survey of the major political, social, and economic forces in modern American life. Chief problems are analyzed in relation to their setting, and students are given sound methods of approach in dealing with them. *Open only to students enrolled in a two-year curriculum.*

Fall and Spring (3)

L45 American Democracy

Greer

The structure and function of government, as it relates to individual Americans. Special emphasis on popular participation through voting, political parties, pressure groups, and public opinion. Prerequisite: Sophomore Standing. *Open only to students enrolled in a two-year curriculum.*

Spring (3)

SOCIOLOGY

Lower division preparation for the liberal arts major in social science with concentration in sociology: Sociology 50A, 50B; Economics 1A-1B and one of the following year courses: Anthropology 50A-50B, Political Science 1A-1B, 71A-71B. See requirements for the social science major, page 141.

LOWER DIVISION COURSES

Sociology L40 Personal and Social Problems

Perry

A course designed to give the student a broad understanding of human motives, and of sources of conflict in the normal person; to lead him to appraise and develop his own special potentialities, and to recognize and intelligently solve his problems of adjustment to life-situations, in the family, in college, in society, and in the business world; to aid the student in laying the foundation of a constructive, adequately socialized personality and in formulating a socially oriented and satisfying philosophy of life.

Fall and Spring (3)

L45 Marriage and the Family

Fay V. Perry

The purpose of this course is to prepare young people for successful marriage and family life. The development of the personality through family relationships, the choice of a life partner, and the social and economic factors involved in the establishment of a home, are given special emphasis. The importance of the family as a unit in larger social groupings is stressed, and both psychological and material factors which affect the welfare of family members are brought to the student's attention. *Open only to students enrolled in a two-year curriculum.* Prerequisite: Sophomore standing.

Spring (3)

SOCIOLOGY

50A Introduction to Sociology

Barnhart

A study of modern social problems recognizing the geographic, economic, psychological, and sociological factors involved. Emphasis is on a scientific method of approach. An evaluation of various causes and solutions of problems is made.

Fall (3)

50B General Sociology

A study of the nature and organization of human group activity, including the relation of cultural heritage to public opinion and social change. Previous preparation in biology and psychology recommended.

Fall and Spring (3)

55 Marriage and Family Life

Fay V. Perry

A psychological and sociological approach to the study of marriage and the family. Some of the topics considered are: relation of courtship to marriage; emotional maturity and marriage; eugenic aspects of marriage; college marriages; harmony in modern marriage; economic adjustment in marriage, parenthood. Prerequisite: Health Education 1 or 2; a biological science and Psychology 1A recommended. Not open to Freshmen.

Fall and Spring (3)

UPPER DIVISION COURSES

100 General Sociology

Barnhart

A course in general sociology for upper division students. The development and use of the concepts of sociological analysis, such as human nature, the effects of isolation and social contacts upon the development of personality; social interaction; social processes; social forces; social control; collective behavior; and social progress. Not open to students who have credit for Sociology 50B.

Spring (3)

105 Social Pathology

Barnhart

A study of the alleged abnormal phenomena in society; family disorganization and personal demoralization; pathology of individual and group relationships and of economic, social, and cultural relationships.

Fall (3)

106 Criminology and Penology

Barnhart

The extent and characteristics of crime; consideration of physical, mental, economic, and sociological causes of crime; study of methods of penal discipline, prison labor, parole, and probation; programs of prevention.

Spring (3)

108 The Family

Barnhart

History of marriage and family as a social institution. Effects of various economic and social factors on the modern family; higher education and the birth rate; married women in industry and professions; causes of desertion and divorce and their sociological effects. Not open to students who have credit for Sociology 55.

Fall (3)

SPANISH

109 Fields of Social Work

Barnhart

A survey of the nature of social work and the various kinds of social work which are found in modern urban life. The student is familiarized with the various social agencies in the community, their problems and methods of work, by readings and field trips. Volunteer social work in some social agency recommended.

Spring (3)

126 Social Reform Movements

Greer

A study of organized efforts to change social institutions in the United States since 1865. Emphasis given to backgrounds, objectives, techniques, and relationship to democracy of each movement.

Fall (3)

197 Urban Sociology

Barnhart

A study of the structure and function of the modern city; types of neighborhoods; forms of recreation; social forces in a metropolitan area; types of urban personalities and groups; rural-urban conflicts of culture. Practical field studies required.

Fall (3)

199A-199B Special Study

Barnhart

The student is introduced to the methods and techniques used in the scientific investigation of society, such as the historical, statistical, case-study, personal history, survey, and other methods of social investigation. Actual practice in doing various types of field studies is required.

Designed exclusively for seniors with concentration in sociology in the social science major and for seniors pursuing the courses of study in the social work curriculum.

Fall (1), Spring (2)

SPANISH

Lower division preparation for the liberal arts major in Spanish: Spanish A-B-C-D; French A-B; History 4A-4B.

Liberal arts major in Spanish: Twenty-four units of upper division work, of which at least eighteen must be in Spanish, and of which a maximum of six may be in related subjects, arranged in consultation with the chairman of the department. At least a C average in upper division major courses.

LOWER DIVISION COURSES

A-B Elementary

Baker, L. P. Brown

Intensive study of Spanish grammar and syntax, with daily written work; class drill in conversational idiom and pronunciation; reading with oral discussion and résumé; dictation; introduction to contemporary prose writers. Credit not given for Spanish A unless followed by Spanish B. Students who have had one year of Spanish in high school should register for Spanish B. Those who have had two years of Spanish in high school should register for Spanish C. Those who have passed L40B should register for Spanish B.

Year course (5-5)

SPANISH

C-D Intermediate

Phillips

Reading and composition: study of standard prose as basis for class work; collateral reading in prose and drama, with written reports in Spanish; dictation. Class work conducted mainly in Spanish. Individual conferences. Prerequisite: Spanish B or two years of high school Spanish, or its equivalent. Students with credit for three years of high school Spanish, or its equivalent, should enter Spanish D, and will receive full credit.

Year course (3-3)

1-2 Elementary

Baker

A course similar to Spanish A-B, but meeting only three times a week and giving only three units of credit a semester. Credit not given for Spanish 1 unless followed by Spanish 2.

Year course (3-3)

UPPER DIVISION COURSES

101A-101B Conversation and Composition

Phillips

Prerequisite: Spanish D, or its equivalent, with grade of C.

Year course (3-3) (Offered in 1943-44)

102A-102B Introduction to Spanish Classics

L. P. Brown

Reading from several types of classical literature. Lazarillo de Tormes and other novels of Roguery; selections from Don Quixote, and the Cien Mejores Poesias Castellanas; one drama each from the works of Lope de Vega, Calderon, Alarcon, and Moreto; collateral reading and reports. Prerequisite: A grade of C in Spanish D or permission from the instructor.

Year course (3-3)

104A-104B Spanish-American Literature

Phillips

A survey of the whole field of Spanish-American literature during the colonial, revolutionary and modern periods. Lectures, class reading, collateral reading and reports. Prerequisite: A grade of C in Spanish D or permission from the instructor.

Year course (3-3) (Offered in 1944-45)

See also English 104, Latin-American Literature in English, which may be taken for Spanish credit.

105A-105B Modern Spanish Drama

L. P. Brown

The development of the drama of Spain from the beginning of the nineteenth century to the present time. Prerequisite: A grade of C in Spanish D or permission from the instructor.

Year course (3-3) (Offered in 1943-44)

110A-110B Novel and Short Story in Spain

L. P. Brown

The development of the novel and short story in Spain from 1830 to the present time. Prerequisite: A grade of C in Spanish D or permission from the instructor.

Year course (3-3) (Offered in 1945-46)

SPEECH ARTS

199 Comprehensive Reading and Survey Course

The Staff

Designed to fill up the gaps in the reading done in courses. Class meeting once a week for guidance, reports, and quizzes. Required of all seniors majoring in Spanish.

Spring (3)

SPEECH ARTS

Lower division preparation of the Liberal Arts major in Speech Arts: At least 18 units of lower division courses in Speech Arts, including 1A, 1B, and six units chosen from 55A, 55B, 55C, 55D. Recommended: Aesthetics 1A, 1B, 50; Art 52A, 94.

Upper division requirements for the Liberal Arts major in Speech Arts: At least 18 units in upper division courses in Speech Arts, including 150, 163A, and six units from 155A, 155B, 156A, 156B. Also required: six units from English 112, 113, 117A, 117B, 152A, 152B. Recommended: English 110, 116B; French 105A, 105B; Physical Education 164A, 164B; Spanish 105A.

Candidates for the teaching credentials in Speech Arts should refer to "Admission to Teacher Training Curricula" on page 29 or to the note regarding the Special Credential in Correction of Speech Defects on page 49.

LOWER DIVISION COURSES

1A Fundamentals of Public Speaking

F. L. Johnson, Pfaff

Training in fundamental processes of oral expression; methods of obtaining and organizing material; outlining principles of attention and delivery; extemporaneous speaking and open forum debating; practice in construction and delivery of type forms of speech.

Fall and Spring (3)

1B Extemporaneous Speaking (or Forum Speaking)

Pfaff

Practice in extemporaneous speaking on subjects of current interest both national and local, with stress laid on the organization and delivery of content material. Forum discussion will provide speakers with the opportunity of assembling facts quickly to meet such questions as any audience situation might demand.

Spring (3)

1C Oral Interpretation

Pfaff

The oral interpretation of longer literary selections, both in poetry and prose; a fundamentals course designed for the beginning students in drama as well as those majoring in English literature.

Fall (3)

1D Advanced Interpretation

Pfaff

Emphasis placed on stage poise and grace with adequate attention given to variations in the presentation of literary selections. Much opportunity is provided for individual and group creative work. No prerequisite. Class limited.

Spring (3)

20 Corrective Speech

Pfaff

Corrective laboratory training prescribed on the basis of vocalization tests made on Electro-Vox Recording Machine. Required of education majors who fail to meet speech requirements test. Private clinical assistance given to stutterers and lispers.

Fall and Spring (1) (9 weeks' course)

L40 Fundamentals of Public Speaking

Peiffer

Training in fundamental processes of oral expression; practice in organization and presentation of material; emphasis upon speech in daily situations, including public discussion, conversation, recitation, extemporaneous speaking, and short speeches for special occasions. *Open only to students enrolled in a two-year curriculum.*

Fall and Spring (3)

55A-55B Dramatic Production

Jones

A course for first and second year students in which, through participation, they acquire an understanding of certain dramatic periods and types studied in English literature. Individual and group expression coordinated and developed in production of scenes, acts, and plays—a fundamental drama course emphasizing modern trends. No prerequisite.

Year course (3-3) (Offered in 1943-44 and alternate years)

55C-55D Dramatic Expression

Jones

A course to help students realize and develop their creative abilities for expressing life and character through acting and writing. History, technique and theory of various dramatic forms studied, created and presented through workshop methods. A fundamental course planned for students desiring specialized training in drama or writing. Prerequisite: Consent of instructor.

Year course (3-3) (Offered in 1942-43 and alternate years)

60 Argumentation and Debate

Peiffer

Obtaining and organizing of evidence and the construction and use of the brief; study and discussion of current issues; the presentation of formal and informal debates. Attention to intramural and intercollegiate debating.

Spring (3)

61A-61B-61C-61D Intercollegiate Debate

Peiffer

Year course, each year (1)

63A-B-C-D Verse Choir

Jones

Participation in verse speaking chorus to develop quality, range of tone, and ability in dramatic visualization of poetry. Required for speech arts credential.

Fall and Spring (1-1)

SPEECH ARTS

UPPER DIVISION COURSES

102 Organized Discussion

Peiffer

Consideration of the symposium, the panel, the open forum, the business session, and varieties of conference speaking. Emphasis upon organization and presentation. Attention to parliamentary procedure for informal groups.

Fall (3)

108 Art of Interpretation

Pfaff

Analysis of various types of literature. Material chosen will emphasize the finer techniques of oral expression to develop the imagination, the emotional power, reading skill and platform deportment in its varied phases. Prerequisite: One year of College Speech or equivalent.

Spring (3)

110 Recreational Reading

Dickhaut

See English, page 101.

112 History of the English Language

Allen

See English, page 101.

113 American English

Allen

See English, page 101.

116B The Elizabethan Drama

F. L. Johnson

See English, page 101.

117A-117B Shakespeare

F. L. Johnson

See English, page 101.

150 Phonetics

Pfaff

Auditory and kinaesthetic analysis of the sounds of the English language. Valuable as a corrective course in pronunciation and articulation. Required of speech majors and those seeking Speech Correction Credential.

Fall (2)

152A Survey of Drama: Comedy

See English, page 103.

152B Survey of Drama: Tragedy

See English, page 103.

155A-155B Advanced Dramatic Expression

Jones

For upper division students training for leadership in different fields as well as drama. More advanced forms of dramatic expression studied; creative abilities in interpretation, writing, acting, and stagecraft developed in relation to various subjects and activities conducted through individual research projects, group discussion and participation. Original work encouraged. Prerequisite: A fundamental drama course.

Year course (3-3) (Offered in 1943-44 and alternate years)

ZOOLOGY

156A-156B Advanced Dramatic Production

Jones

The study of more difficult dramatic types and periods in the production of poetic and prose literature of different countries. Arrangement, organization, creation, direction and presentation of class room, recreational and other forms of performances. Practical participation and demonstration. A course designed for students majoring in other subjects as well as the theater arts.

Year course (3-3) (Offered in 1942-43 and alternate years)

157A-B Radio Production

Jones

Preparation and production of radio plays and various types of radio material.

Fall and Spring (3-3)

163A Rhythm, Pantomime and Choric Verse

Jones

A course combining bodily movement with group speaking. Presents the fundamentals of rhythm and pantomime in different forms of dramatic expression.

Spring (3) (Offered in 1943-44 and alternate years)

163B Advanced Rhythm, Pantomime and Choric Verse

Jones

Continuation of above.

Spring (3) (Offered in 1942-43 and alternate years)

175 Major Speech Disorders

Pfaff

Clinical survey of newest methods of speech correction with special emphasis given to stammering and cleft-palate speech. One of required courses for Special Corrective Credential.

Spring (3)

ZOOLOGY

Lower division preparation for the liberal arts major in zoology: Zoology 1A, 1B, and high school chemistry or Chemistry 1A-1B. Recommended: German or French, Botany 2A, 2B, 4.

Liberal arts major in zoology: (1) At least a C average in upper division major courses. (2) Twenty-four units of upper division courses in zoology or eighteen in the major subject and six in related courses in botany, chemistry, physics, physiology or bacteriology.

Students preparing to teach science in the junior high school should try to include courses in zoology, botany, physiology, bacteriology, physics, chemistry (at least high school chemistry). Courses designed to help the student get acquainted with wild life of the region should be included. Recommended: Botany 4, 104, 102; Zoology 112, 113B, C, 121.

ZOOLOGY

LOWER DIVISION COURSES

1A General

Harwood

An introduction to animal biology dealing with structure, functions, and evolution of animal life. Laboratory work supplementing the lectures and based on the study and observation of living and preserved material (frogs and invertebrates). Valuable to the general student as well as to the biology specialist, acquainting him with the fundamental facts and theories of biology as they pertain to animal life. Two lectures or recitations and six hours of laboratory per week. Students who have credit for Biology 10A-10B receive no credit for Zoo. 1A but receive credit for Zoo. 1B.

Fall (4)

1B General

Harwood

A continuation of 1A. The structure, relationships, and classification of the chordates. Two lectures and six hours of laboratory per week. Prerequisite: Zoology 1A or Biology 10B.

Spring (4)

4 Microscopic Technique

M. E. Johnson

Introduction to methods of preparation of tissues for microscopic study. Six hours of laboratory per week. Prerequisite: elementary chemistry.

Fall or Spring (2)

8 Human Anatomy

Crouch

A study of human structure through the use of models, prepared dissections and microscopic slides. Prerequisite: high school biology, Biology 10A, 1, or Zoology 1A. Two hours of lecture and three hours of laboratory per week. Required of prenursing students. Not open to premedical students.

Fall (3)

20 Anatomy and Physiology

Crouch

An elementary course in human anatomy and physiology. Prerequisite: High school biology, or Biology 1 or 10A or Zoology 1A. Lectures three hours per week.

Fall (3)

UPPER DIVISION COURSES

100 Embryology

M. E. Johnson

The development of vertebrates as illustrated by the frog, chick, and pig. Three hours of laboratory and three hours of lecture and quiz per week. Prerequisite: Zoology 1B or Biology 10B.

Spring (4)

100D Microscopic Technique

Introduction to methods of preparation of tissues for microscopic study. Three hours of laboratory per week. Prerequisite: elementary chemistry and embryology completed or in process.

Spring (1) (Not offered in 1942-43)

101 Cellular Physiology

Darsie

A study of the vital activities of protoplasm, stressing the various physiochemical relationships involved. Laboratory study of both plant and animal material will serve as an introduction to the methods of modern experimental biology. Two hours of lecture and three hours of laboratory per week. Prerequisite: One year of Life Science in college and three units of college chemistry. Additional training in chemistry and physics is desirable.

Fall (3) (Offered in 1942-43 and alternate years)

106 Comparative Anatomy of the Vertebrates

Crouch

Dissection, study and comparison of organ systems of typical vertebrates. Two hours per week of lecture and six hours of laboratory. Prerequisite: Zoology 1B or Biology 10B.

Fall (4)

108 Human Anatomy

Crouch

Lectures and laboratory work of Human Anatomy 8 with an additional hour of seminar each week. Open only to upper division students by special arrangement.

Fall (3)

112 Marine Invertebrates

M. E. Johnson

Identification and study of behavior and life histories of invertebrates of the San Diego region. Frequent collecting trips to the beaches required. Prerequisite: Zoology 1A or Biology 10B. One hour of lecture and six hours of laboratory or field work per week.

Fall (3) (Offered in 1943-44 and alternate years)

113A Taxonomy and Natural History of the Mammals

Harwood

Frequent field trips and the identification of museum material. Three hours of laboratory per week.

Spring (1) (Not offered in 1942-43 and alternate years)

113B Ornithology

Crouch

The study and identification of birds, especially those of the Pacific Coast and the San Diego region. One hour of lecture and six hours per week of laboratory, or field excursions. Prerequisite: Zoology 1B or Biology 10B.

Spring (3) (Offered in 1942-43 and alternate years)

113C Field Study of Birds

Crouch

The study and identification of the birds of the San Diego region. Three hours of laboratory or field work per week.

Spring (1) (Offered in 1943-44 and alternate years)

113D Natural History of Fishes

Harwood

Lectures, laboratory, and field work to acquaint the student with the groups of fishes, their habits and economic importance.

Fall (1) (Not offered in 1942-43 and alternate years)

ZOOLOGY

114A Genetics

Harwood

General introductory course designed to acquaint the student with the fundamental principles of heredity and variation. Special attention given to the Mendelian interpretations of the facts of inheritance. Two lectures per week.

Fall (2)

114B Evolution

The development of theories of evolution. Two lectures or discussion periods per week.

Spring (2) (Not offered in 1942-43)

121 General Entomology

Harwood

The classification, life history, structure, and physiology of insects. Prerequisite: Zoology 1A or Biology 10B. Two hours of lecture and six hours of laboratory per week.

Spring (3)

122 Systematic Entomology

Harwood

Classification of insects with especial emphasis on a group of insects of the student's choice. To be taken with or to follow 121. May be repeated for credit but with a total of not more than 2 units. Three to six hours of laboratory work each week.

Spring (1 or 2)

126 Medical Entomology

Harwood

The role of insects and other arthropods in transmission and causation of human diseases. Three hours of laboratory and one hour of lecture per week. Prerequisite: Zoology 1A or Biology 10B.

Fall (2) (Offered in 1943-44 and alternate years)

130 Readings in Biology

Harwood

Readings from a suggested bibliography with informal class discussion of topics. Subjects discussed will include history of biology, biological principles, ecology, economic zoology, zoogeography, breeding habits, animal behavior.

Spring (2) (Offered in 1943-44 and alternate years)

199 Special Study

The Staff

Work other than is outlined in the above courses. Admission only by consent of the instructor with whom the work is to be done. Credit and hours to be arranged in each case. Open to students who have completed at least fifteen units of Zoology with a grade of A or B.

Fall and Spring (1 or 2)

DIRECTORY

- HEPNER, WALTER R.**-----President
A.B., 1913, M.A., 1916, Ed.D., 1937, University of Southern California. At San Diego State College since 1935.
- ADAMS, JOHN R.**-----Professor of English
A.B., 1920, A.M., 1922, University of Michigan; Ph.D., 1940, University of Southern California. At San Diego State College since 1928.
- ALCORN, MARVIN DOUGLAS**-----Assistant Professor of Education;
Director of Teacher Placement
A.B., 1925, Southwestern College; A.M., 1931, Teachers College, Columbia University. Two years graduate study since 1931 at University of Southern California. At San Diego State College since 1941.
- ALLEN, HAROLD BYRON**-----Assistant Professor of English
A.B., 1924, Kalamazoo College; A.M., 1928, Ph.D., 1940, University of Michigan. At San Diego State College since 1940.
- AMSDEN, GEORGIA C.**-----Associate Professor of Commerce
Diploma, Gregg School, Chicago. At San Diego State College since 1925.
- AULT, JESSE W.**-----Dean of Education, Professor of Education
B.S., B.Pd., 1910, Valparaiso University; M.A., 1925, University of South Dakota. One year graduate study since 1925 at Claremont Colleges and University of Southern California. At San Diego State College since 1925.
- BACON, GUINIVERE KOTTER (Mrs. George)**-----Supervisor of
Student Teaching; Associate Professor of Education
B.S., Utah Agricultural College; M.A., Stanford University. One year graduate study since 1926 at Stanford University, Teachers College, Columbia University, University of Southern California, and University of California at Los Angeles. At San Diego State College since 1928.
- BAIRD, OSCAR**-----Professor of Physics
B.A., 1910, University of Wisconsin; M.A., 1924, University of California. Two years graduate study since 1924 at University of Minnesota, University of California, University of Southern California, University of Oregon. At San Diego State College since 1921.
- BAKER, CLIFFORD HENRY, JR.**---Instructor in Spanish and French
B.A., 1933, San Diego State College; M.A., 1935, University of California. Two years graduate study since 1935 at University of California. At San Diego State College since 1937.
- BARNHART, KENNETH EDWIN**---Assistant Professor of Sociology
A.B., 1915, Southwestern University; A.M., 1920; Southern Methodist University; Ph.D., 1924, University of Chicago. At San Diego State College since 1939.
- BENNETT, MURIEL**-----Instructor in Physical Education
B.A., Pomona College; M.A., Claremont Colleges. One-half year graduate study since 1936 at Claremont Colleges and University of California at Los Angeles. At San Diego State College since 1936.
- BLAKE, DEAN**-----Instructor in Meteorology
Meteorologist, U. S. Weather Bureau. At San Diego State College since 1927.

DIRECTORY

- BROMLEY, J. PHILIP**-----Assistant Professor of Commerce
B.S., 1934, M.S., 1936, University of Southern California. One year graduate study since 1936 at University of Southern California, Columbia University, and Texas Agricultural and Mechanical College. At San Diego State College since 1936.
- BROOKS, BAYLOR**-----Assistant Professor of Geology
B.A., 1928, Stanford University. Two years graduate study since 1928 at University of Arizona and Stanford University. At San Diego State College since 1931.
- BROWN, ELIZABETH (Mrs. Leslie P.)** Associate Professor of French
Ph.B., M.A., Ph.D., University of Chicago. At San Diego State College since 1926.
- BROWN, LESLIE PARKER**-----Professor of Spanish and French
B.A., 1912, Yale College; M.A., 1913, Harvard University; Ph.D., 1935, University of Southern California. At San Diego State College since 1922.
- *BRUNER, WILLIAM S.**-----Instructor in English
B.S., 1925, University of Virginia; A.M., 1940, Claremont Colleges. At San Diego Junior College since 1940.
- CALLAND, LEO BLAKELY** Associate Professor of Physical Education
B.A., 1923, University of Southern California; M.S., 1931, University of Idaho. One year graduate study since 1931 at University of Southern California. At San Diego State College since 1935.
- CAMERON, ROY ERNEST**-----Professor of Economics
A.B., 1922, Ph.D., 1929, University of California. At San Diego State College since 1929.
- *CHASE, LAURA B. (MRS.)**-----Instructor in Commerce
B.A., San Diego State College. At San Diego Junior College since 1941.
- CORBETT, KATHERINE E.**-----Supervisor of Student Teaching;
Associate Professor of Education
B.Pd., Michigan State College; B.S., M.A., Teachers' College, Columbia University. At San Diego State College since 1921.
- CROUCH, JAMES ENSIGN**-----Associate Professor of Biology
B.S., 1930, M.S., 1931, Cornell University; Ph.D., 1939, University of Southern California. At San Diego State College since 1932.
- DARSIE, MARVIN LLOYD, JR.**-----Instructor in Biology
A.B., 1934, University of California at Los Angeles; Ph.D., 1939, Stanford University. At San Diego State College since 1939.
- DEPUTY, ERBY CHESTER**-----Professor of Education
B.A., 1922, University of Denver; M.A., 1926, Ph.D., 1929, Columbia University. At San Diego State College since 1931.
- DICKHAUT, FLORENCE LILLIAN SMITH (Mrs. Charles A.)**
Professor of English
B.A., Northwestern University; M.A., University of Chicago. At San Diego State College since 1917.
- DOTSON, GEORGE EDGAR**-----Associate Professor of Educational
Guidance; Registrar and Director of Student Personnel
B.A., 1926, San Diego State College; M.A., 1927, Ed.D., 1939, Stanford University. At San Diego State College since 1936.
- *DRISCOLL, HAROLD**-----Instructor in Art
B.A., 1934, Occidental College; M.A., 1940, Claremont Colleges. At San Diego Junior College since 1941.
- *DUSTIN, GERTRUDE LORRAINE**-----Instructor in Psychology and
Home Economics
B.S., Teachers College, Columbia University; M.S., University of Southern California. At San Diego Junior College since 1941.

* Junior College.

DIRECTORY

- FIRMAN, JOHN EVANS**-----Assistant Professor of Psychology
B.A., 1934, University of Buffalo; M.S., 1941, University of Southern California. At San Diego State College since 1941.
- GLEASON, JOHN MORTIMER**---Assistant Professor of Mathematics
B.A., 1929, University of California at Los Angeles; M.A., 1930, University of California. One and a half years graduate study since 1930 at University of Southern California, University of California at Los Angeles, and Claremont Colleges. At San Diego State College since 1930.
- *GREER, THOMAS H.**-----Instructor in Social Science
A.B., 1935, A.M., 1936, Ph.D., 1938, University of California. At San Diego Junior College since 1938.
- GROSS, MORRIS HUBBARD**-----Associate Professor of
Physical Education
B.A., 1928, San Diego State College. Three-fourths year graduate study since 1928 at University of Southern California. At San Diego State College since 1929.
- HAMANN, ILSE HEDWIG**-----Assistant Professor of Art
B.E., University of California at Los Angeles. M.A., Columbia University. At San Diego State College since 1934.
- HAMMACK, EDITH CHASTAIN**----Supervisor of Student Teaching;
Associate Professor of Education
B.A., San Jose State College. At San Diego State College since 1911.
- HAMMACK, ISABELLA STEWARD**--Supervisor of Student Teaching;
Assistant Professor of Education
B.A., M.A., University of California. One-half year graduate study since 1929 at University of California. At San Diego State College since 1936.
- HARVEY, DOROTHY R. (Mrs. F. A.)**---Assistant Professor of Botany
B.A., San Diego State College; M.A., University of Southern California. One year graduate study since 1928 at University of Southern California and University of Chicago. At San Diego State College since 1924.
- HARWOOD, ROBERT DANIEL**-----Professor of Zoology
A.B., 1920, Pomona College; Ph.D., 1928, Cornell University. At San Diego State College since 1928.
- *HASKELL, HARRIET**-----Instructor in English
A.B., Mills College; A.M., Bryn Mawr College; Ph.D., University of Wisconsin. At San Diego Junior College since 1940.
- HOUSER, LOWELL D.**-----Instructor in Art
Diploma, 1924, Chicago Art Institute. Five years' special study since 1924 in Mexico, Yucatan, Haiti, and New York City. At San Diego State College since 1938.
- HUFF, GEORGE D.**-----Associate Professor of Health and
Hygiene (on leave of absence)
M.D., 1924, University of Texas. At San Diego State College since 1939.
- HUNT, MARGARET B. (Mrs. E. J.)**--Supervisor of Student Teaching;
Instructor in Music
B.S., M.A., Teachers College, Columbia University. One-half year graduate study since 1935 at Teachers College, Columbia University, and Michigan State College. At San Diego State College since 1940.
- JACKSON, EVERETT GEE**-----Professor of Art
B.A., 1930, San Diego State College. Three years special study in Mexico. M.A., 1939, University of Southern California. At San Diego State College since 1930.

* Junior College.

DIRECTORY

- *JANNOCH, MARY LOUISE** (Mrs. A. W.)-----Instructor in Biology
B.A., M.A., Pomona College. One and a fourth years graduate study
since 1921 at University of California, and Claremont Colleges.
Appointed San Diego State College 1938. At San Diego Junior
College since 1939.
- JOHNSON, FRANK LOUIS**-----Instructor in English
B.A., 1928, M.A., 1929, University of Minnesota; Ph.D., 1934, Uni-
versity of Wisconsin. At San Diego State College since 1939.
- JOHNSON, MYRTLE**-----Professor of Biology
B.S., M.S., Ph.D., University of California. At San Diego State
College since 1921.
- JONES, SYBIL ELIZA**-----Assistant Professor of Speech Arts
B.L., M.L., University of California. Two years special study since
1907. At San Diego State College since 1925.
- JORDAN, HARRY JOHN**-----Associate Professor of Commerce
B.A., 1926, Washburn College; M.B.A., 1930, Harvard School of
Business Administration; Ph.D., 1936, Northwestern University.
At San Diego State College since 1939.
- KEENEY, JOSEPH SUMNER**-----Associate Professor of English
B.A., 1921, Yale College; M.A., 1928, Ph.D., 1933, University of
California. At San Diego State College since 1933.
- KELLY, GENEVIEVE**-----Assistant Professor of Sociology
B.A., University of California; M.A., Columbia University. At San
Diego State College since 1924.
- KENNEDY, CHESTER BARRETT**-----Assistant Professor of English
B.A., 1927, Chico State College; M.A., 1939, Stanford University.
Two and one-half years graduate study since 1928 at Stanford Uni-
versity and the University of California. At San Diego State Col-
lege since 1937.
- KRIEGER, CHARLES JOHN**-----Assistant Professor of Astronomy
E.E., 1922, Munich Institute of Technology; Ph.D., 1929, University
of California. One-half year graduate study since 1929 at Uni-
versity of California and University of Washington. At San Diego
State College since 1941.
- LAMB, NEIL WILLIAM**-----Assistant Professor of Education
B.S., 1930, University of Nevada; M.A., 1936, University of Cali-
fornia. Two years graduate study since 1936 at University of
California. At San Diego State College since 1941.
- LEIB, JULIUS**-----Assistant Professor of Music
Three years special study at Leipzig Conservatory. At San Diego
State College since 1938.
- LEONARD, CHARLES B.**-----Professor of History
B.A., 1921, M.A., 1922, Ph.D., 1929, University of California. At
San Diego State College since 1921.
- LESLEY, LEWIS B.**-----Professor of History
B.A., 1920, Stanford University; M.A., 1923, Ph.D., 1933, University
of California. At San Diego State College since 1924.
- LIVINGSTON, GEORGE ROBERT**-----Professor of Mathematics
B.S., 1910, M.A., 1922, University of California. One year graduate
study since 1922 at University of California and University of Cali-
fornia at Los Angeles. At San Diego State College since 1921.
- LUCIO, WILLIAM HOWARD**-----Supervisor of Student Teaching;
Assistant Professor of Education
A.B., 1934, M.A., 1937, University of California. Three years gradu-
ate study since 1934 at University of California. At San Diego
State College since 1939.

* Junior College.

DIRECTORY

- MACK, HENRY PITTS**-----Instructor in Law
B.A., 1928, LL.B., 1931, Stanford University. At San Diego State College since 1941.
- MADDEN, RICHARD**-----Principal of Campus Elementary School;
Associate Professor of Education
B.A., 1926, Nebraska (Peru) State Teachers College; M.A., 1930, Ph.D., 1931, Columbia University. At San Diego State College since 1939.
- MEAD, HUNTER**-----Assistant Professor of Philosophy and Psychology
B.A., 1930, Pomona College; M.A., 1933, Claremont Colleges; Ph.D., 1936, University of Southern California. At San Diego State College since 1941.
- MENDENHALL, MARY**-----Dean of Women; Associate Professor
of Educational Guidance
B.A., University of Colorado; M.A., University of Southern California; Ph.D., Yale University. At San Diego State College since 1939.
- MESSNER, ELMER ALLEN**-----Assistant Professor of Chemistry
B.A., 1927, M.A., 1928, Stanford University. Two years graduate study since 1928 at Technische Hochschule, Breslau, Germany. At San Diego State College since 1931.
- *MILLER, MILTON A.**-----Instructor in Biology
A.B., 1929, University of Illinois. Ph.D., 1934, University of California. At San Diego Junior College since January, 1942.
- MOE, CHESNEY R.**-----Associate Professor of Physics
B.A., 1929, M.A., 1931, Stanford University; Ph.D., 1941, University of Southern California. At San Diego State College since 1931.
- NASATIR, ABRAHAM PHINEAS**-----Professor of History
B.A., 1921, M.A., 1922, Ph.D., 1926, University of California. At San Diego State College since 1928.
- NICHOLS, AMBROSE R., JR.**-----Instructor in Chemistry
B.S., 1935, University of California; Ph.D., 1939, University of Wisconsin. At San Diego State College since 1939.
- NORDAHL, MARGUERITE ANNA**---Supervisor of Student Teaching;
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